SANY-02333

SANYO

Colour Television Service Manual

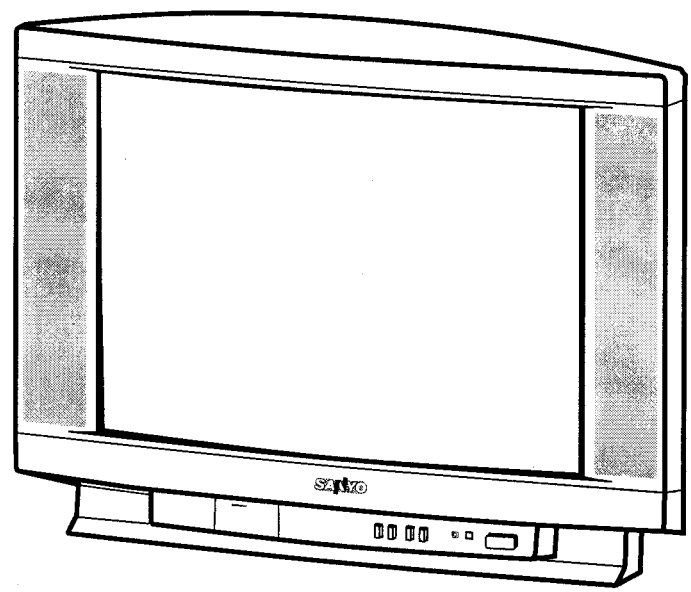
CE28CHN4F-C

Model CE28CHN4F-C

Service Ref. No. CE28CHN4F-C-00

PRODUCT CODE: 111361004

ORIGINAL VERSION: Chassis No. HB3B



Please use Schematic Diagram SKP20413 with this Service Manual.

Give complete "SERVICE REF. NO." for parts order or servicing, it is shown on the rating sheet on the cabinet back of the TV set.

Note
This TV receiver will not work properly in foreign countries where the television transmission system and power source differ from the design specifications. Refer to the specifications for the design specifications

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Part No. SKSM0680 C5WEL OCTOBER 2003

SAFETY PRECAUTION

1: An isolation transformer should be connected in the power line between the receiver and the AC line when a service is performed on the primary of the converter transformer of the set.

2: Comply with all caution and safety-related notes provided on the cabinet back, inside the cabinet, on the chassis or the picture tube.

3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, isolation resistor-capacitor networks etc. Before returning any television to the customer, the service technician must be sure that it is completely safe to operate without danger of electrical shock.

X-RADIATION PRECAUTION

The primary source of X-RADIATION in the television receiver is the picture tube. The picture tube is specially constructed to limit X-RADIATION emissions. For continued X-RADIATION protection, the replacement tube must be the same type as the original including suffix letter. Excessive high voltage may produce potentially hazardous X-RADIATION. To avoid such hazards, the high voltage must be maintained within specified limit. Refer to this service manual, high voltage adjustment for specific high voltage limit. If high voltage exceeds specified limits, take necessary corrective action. Carefully follow the instructions for +B1 volt power supply adjustment, and high voltage adjustment to maintain the high voltage within the specified limits.

PRODUCT SAFETY NOTICE

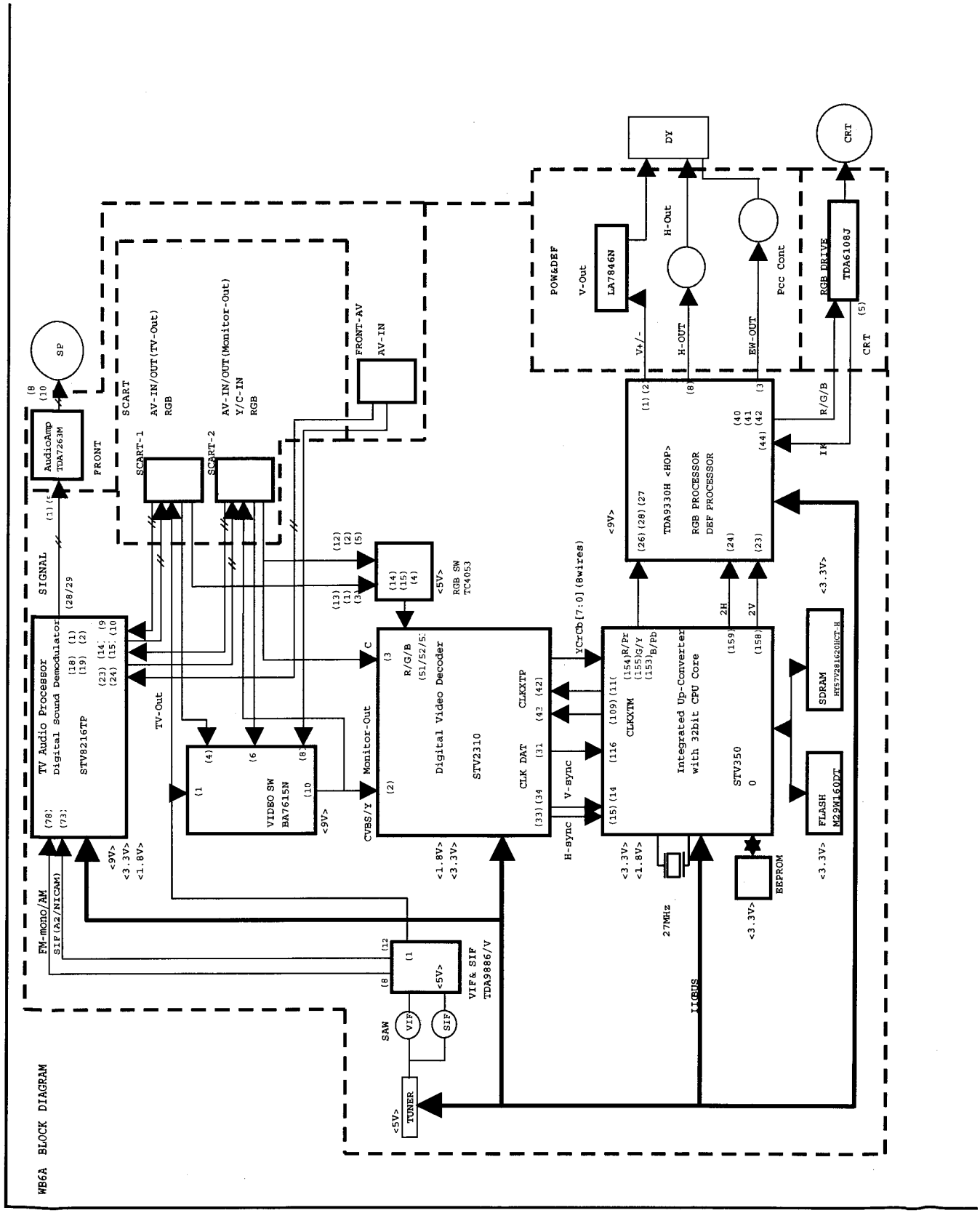
Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by mark ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. It is particularly recommended that only parts designated on the parts list in this manual be used for component replacement designated by mark ⚠ . No deviations from resistance wattage or voltage ratings may be made for replacement items designated by mark ⚠ .

SPECIFICATIONS

Power source	AC 220~240V, 50Hz
Television system	System B/G, I, D/K, L/L'
Colour system	PAL/NTSC4.43 (PAL/NTSC4.43/NTSC3.58 IN AV MODE)
Receiving channel	UHF: 21~69
	VHF: E2-E12, F2-F10, R1-R12.
	CATV: X, Y, Z, S1-S41, B-Q.
Aerial input impedance	75ohm
Rear AV terminal	
AV1:	CENELEC standard
INPUT:	Composite video, RGB and Audio L/R
OUTPUT:	TV-output with composite video and audio L/R
AV2:	CENELEC standard
INPUT:	Composite video, RGB, S-VHS and Audio L/R
OUTPUT:	Monitor output with composite video and Audio L/R
Front AV terminal	
AV3:	RCA jacks
INPUT:	Composite video and Audio L/R
Sound output(Music)	8 x 2
Dimensions (WxHxD)	736 x 597 x 494mm
Weight	32 Kg

BLOCK DIAGRAM

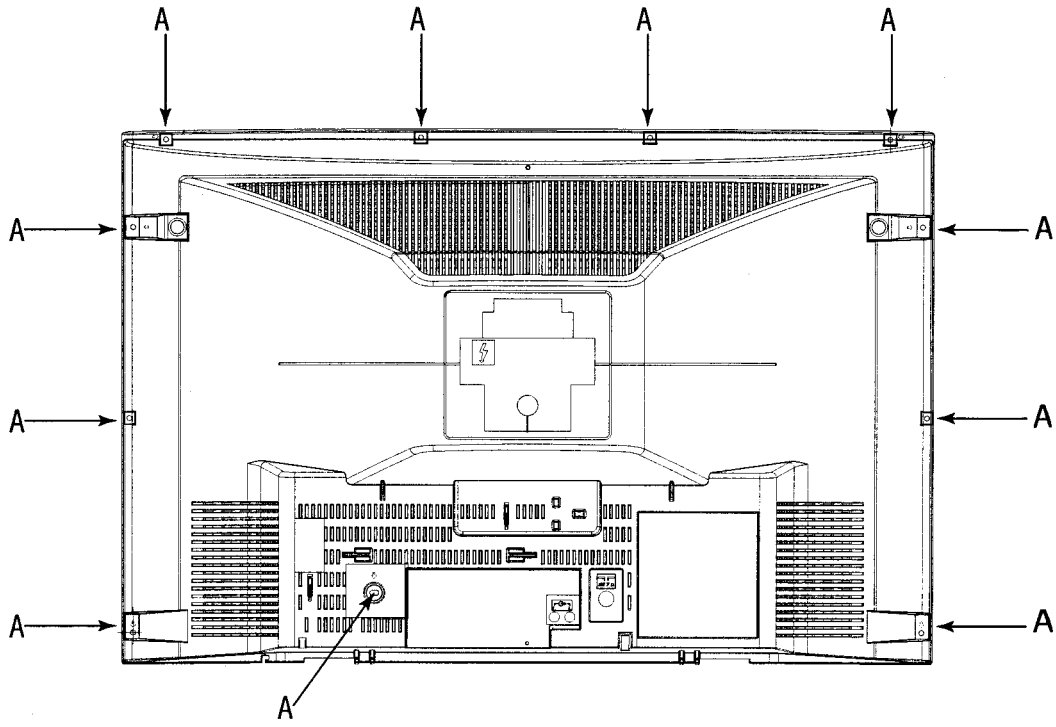
This is a diagram for all models and therefore differs slightly from the actual block diagram.



CABINET DISASSEMBLY

CABINET BACK DISASSEMBLY

1. Remove 11 screws(A) for 28"
2. Pull out the cabinet back.



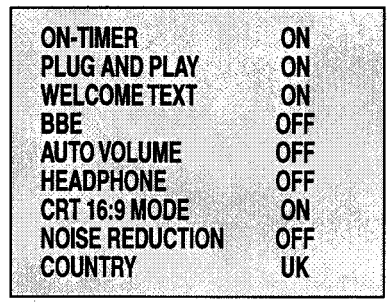
OPTION SETTING

[After replacing the Memory IC (IC803)]

The memory IC, IC803, stores the option data of TV set and service adjustments data for each circuit, therefore, when the memory IC is replaced, it should be performed following setting and "SERVICE ADJUSTMENT" on next page.

To enter to the Option Mode

+ Press and hold the **F/OK** button on the remote control and **P▼** button on the front panel of the TV. The option window will appear on the screen.



OPTION MODE FOR CE28CHN4F-C-00

To set the option mode

+ Highlight the desired option item by using the **P▲** or **P▼** button .
+ To switch the option mode, use the **Volume - (LEFT)** or **Volume + (RIGHT)** button.
+ The data which is set in the option mode is stored into the memory IC automatically.

Following table shows the available option items and default setting mode.

Option Mode	Mode	Description & Note
ON-TIMER	ON or OFF	On-timer available, default "ON"
PLUG AND PLAY	ON or OFF	Plug and Play mode, default "ON"
WELCOME TEXT	ON or OFF	Display message when first set up, default "ON"
BBE	ON or OFF	BBE sound mode, default "OFF"
AUTO VOLUME	OFF or ON	Default "OFF"
HEADPHONE	ON or OFF	Headphone control , default "OFF"
CRT 16:9 MODE	ON or OFF	Default "ON"
NOISE REDUCTION	ON or OFF	Default "OFF"
COUNTRY	UK, IRE	TV system, default "UK"
	BG/DK / I / LL'	

Exit from the Service Mode

+ Press the **MENU** MENU button.

SERVICE ADJUSTMENTS

Note: Some items of the service adjustments for this chassis are controlled by the CPU, IC801, and the adjustments are carried out by using the RC handset.

INITIALISATION OF MEMORY IC

To initialise the memory IC (IC803), press and hold the **NORMAL** →•← button on the remote control, then press the **P▼** button on the front panel of the TV set and then turn the Mains switch Off and On. The initialisation is now completed.
When initialised the memory IC and all of the setting data (option data and service adjustment data) stored in the IC are reset to the default value. It is necessary to set the option settings and readjust the service adjustments listed on page 6 and to re-tune all the channels.

The available adjustment items are as follows;

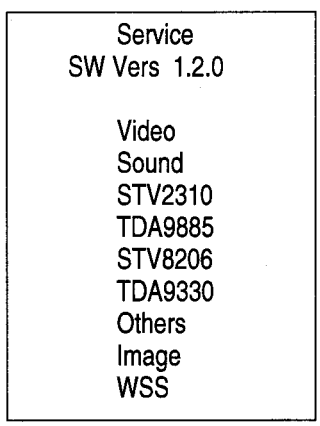
TDA9885 : This can be adjusted for AGC.
Image : This can be adjusted for picture images/shapes.
Video : This can be adjusted for the service adjustment.
DO NOT ADJUST OTHER SETTINGS

[After replacing the Memory IC (IC803)]

The memory IC, IC803, stores the service adjustments data for each circuit, therefore, when the memory IC is replaced, it should be programmed by using "OPTION SETTING" on previous page and the following adjustments.

TO ENTER SERVICE ADJUSTMENTS

While pressing the green button on the remote control press the **P▼** on the cabinet front. The service menu appears.



Use the **P▼** or **P▲** to highlight the service menu you require and press the F/OK button to enter.

TO EXIT SERVICE ADJUSTMENTS

Press the Menu button to navigate backwards through the service menus until menus disappear.

IMPORTANT NOTICE
Do not attempt to adjust service adjustments not listed on the above otherwise it may cause loss of performance and product safety.

Service menu: Video

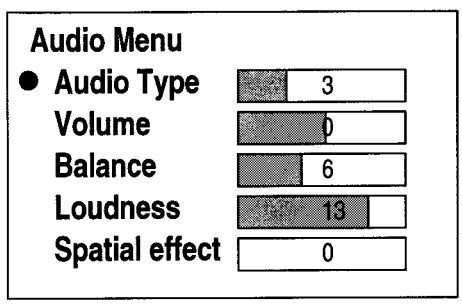
Enter the service adjustment menu as described on the previous page and select "Video" using the **P▼** or **P▲** buttons and then press the F/OK button to enter.

VIDEO	
G2 Alignment	Config.
White Point R	41
White Point G	32
White Point B	36
Peak White Limiter	0
Black Level offset R	8
Black Level offset G	8
Gain pre-scale RGB	0
Fast blanking delay	0
Luma/Chroma delay	0
Restore default	

Use the **P▼** or **P▲** buttons to select the option, then press the **F/OK** button on the remote control to enter.

Service menu: Sound

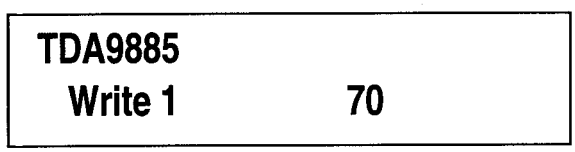
Enter the service adjustment menu as described on the previous page and select "Sound" using the **P▼** or **P▲** buttons and then press the **F/OK** button to enter.



Use the **P▼** or **P▲** buttons to select the option, then press the **F/OK** button on the remote control to enter.

Service menu: TDA9885

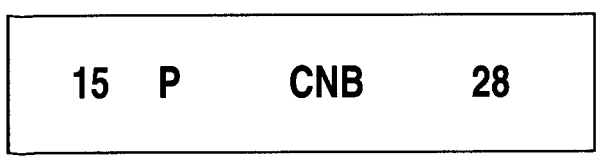
Enter the service adjustment menu as described on the previous page and select "TDA9885" using the **P▼** or **P▲** buttons and then press the **F/OK** button to enter



Use the **P▼** or **P▲** buttons to select the option, then press the **F/OK** button on the remote control to enter.

Service menu: Image

Enter the service adjustment menu as described on the previous page and select "Image" using the **P▼** or **P▲** buttons and then press the F/OK button to enter



Use the **P▼** or **P▲** buttons to select the different options.

ADJUSTMENTS

IMPORTANT NOTICE

Do not attempt to adjust the following service adjustments except when adjustments are required in servicing otherwise it may cause loss of performance and product safety.

+ B VOLTAGE ADJUSTMENT

1. Receive white raster pattern.
2. Set controls to normal.
3. Connect digital voltmetre to test point TP-B and GND.
4. Adjust voltage to 145 ±0.5V by using VR641.

AGC ADJUSTMENT

1. Select the clearest VHF station
2. Connect a digital voltmeter to test point TP-A and GND
3. Enter service menu : TDA9885
4. With the **P▼** or **P▲** buttons select "Write 1"
5. Adjust using the + or - buttons until the readout from the voltmeter is 3.2 Vdc.

GREY SCALE ADJUSTMENT

SCREEN ADJUSTMENT

1. Make sure the set is warm (20 mins)
2. Receive Black and White picture/pattern
3. Enter service menu "Video"
4. Select item "White Point R" or "White Point B"
5. Using the + or - buttons adjust to make the white, white.

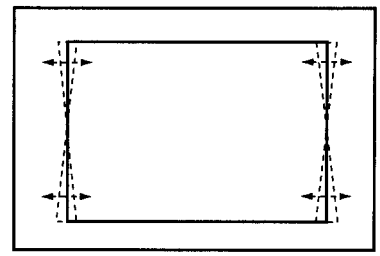
PCC ADJUSTMENT

PCC ADJUSTMENT

1. Receive cross hatch pattern and set screen mode to "FULL".
2. Enter Service menu : Image
3. Use the **P▼** or **P▲** buttons to highlight '4 P PPC", then press the **F/OK** button to enter.
4. Press the + or - buttons to make the vertical line become straight.

TRAPEZOID ADJUSTMENT

1. Receive cross hatch pattern and set screen mode to "FULL".
2. Enter service menu : Image
3. Use the **P▼** or **P▲** buttons to highlight '6 P TRP".
4. Press the + or - buttons to adjust trapezium distortion.



CORNER ADJUSTMENT

1. Receive cross hatch pattern and set wide screen mode to "FULL".
2. Enter service menu : Image.
3. Use the **P▼** or **P▲** buttons to highlight '5 P CNT".
4. Press the + or - buttons to adjust any top corner distortion.
5. Use the **P▼** button to highlight "15 P CNB"
6. Use the + or - buttons to adjust any bottom corner distortion.

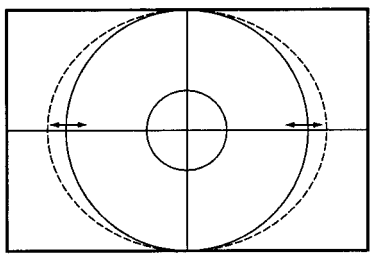
HORIZONTAL ADJUSTMENT

HORIZONTAL CENTRING ADJUSTMENT

1. Set wide screen mode to "FULL".
2. Preferably receive a circular pattern
3. Enter service menu : Image
4. Use the **P▼** or **P▲** buttons to highlight '1 P H-P".
5. Press the ◢+ or ◢- buttons to adjust horizontal centre.

HORIZONTAL WIDTH ADJUSTMENT

1. Set wide screen mode to "FULL".
2. Preferably receive a circular pattern
3. Enter service menu : Image
4. Use the **P▼** or **P▲** buttons to highlight '3 P H-W"
5. Press the ◢+ or ◢- buttons to adjust horizonal width.



HIGH-VOLTAGE CONFIRMATION

1. Set wide screen mode to "FULL".
2. Preferably receive a circular pattern
3. Set brightness and contrast to max.
4. Connect high-voltage meter to the CRT anode and GND.
5. Confirm Voltage is 29.5± 1.0 kV (28')
   30.5± 1.0 kV (32')

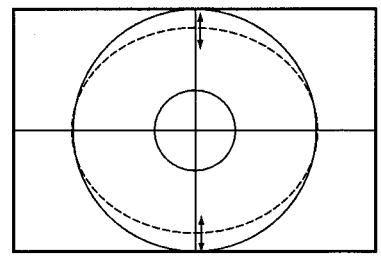
VERTICAL ADJUSTMENT

VERTICAL CENTRING ADJUSTMENT

1. Set wide screen mode to "FULL".
2. Preferably receive a circular pattern
3. Enter service menu : Image
4. Use the **P▼** or **P▲** buttons to highlight '11 P V-P"
5. Press the ◢+ or ◢- buttons to adjust the vertical centre.

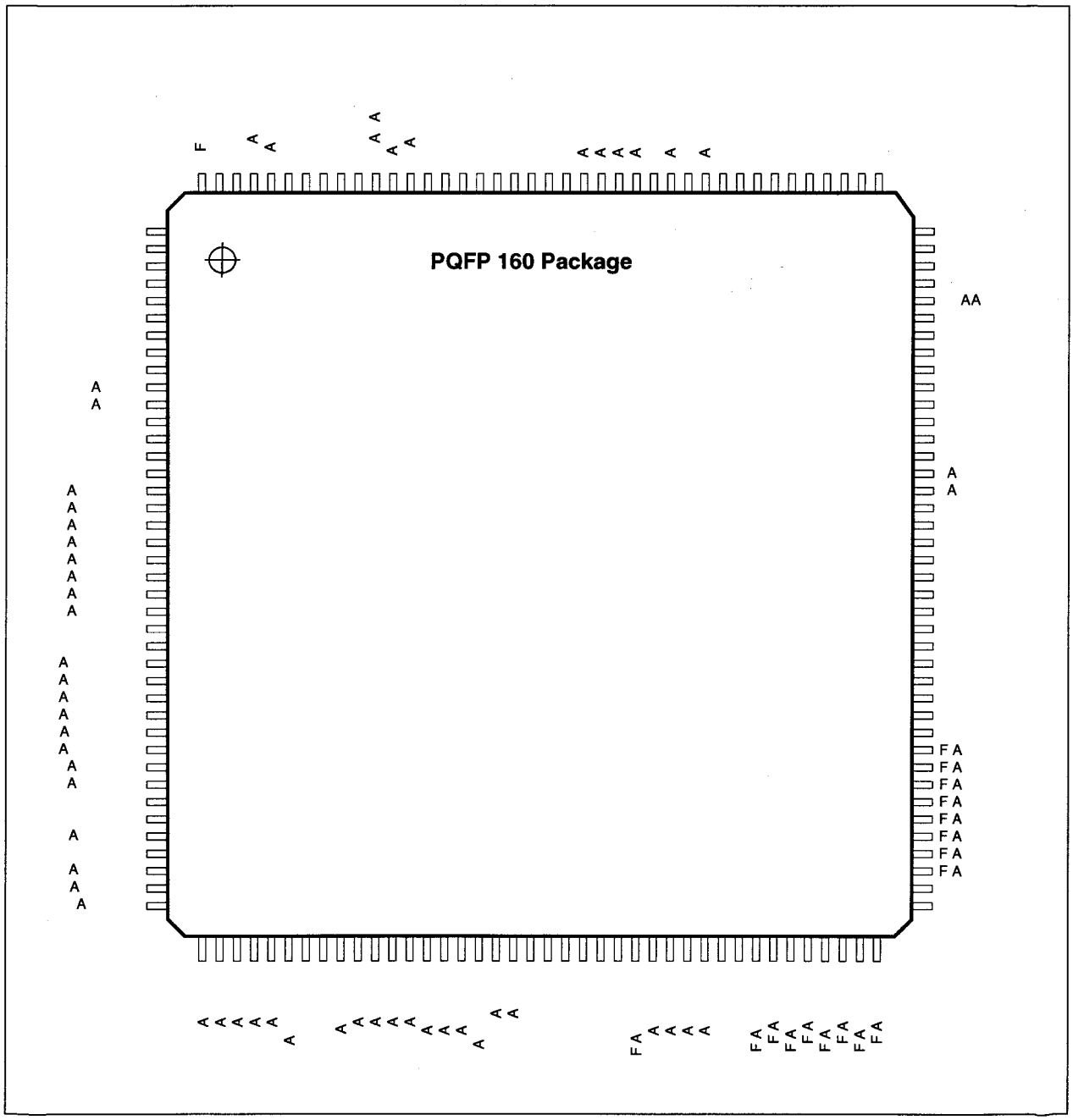
VERTICAL HEIGHT ADJUSTMENT

1. Set wide screen mode to "FULL".
2. Preferably receive a circular pattern
3. Enter service menu : Image
4. Use the **P▼** or **P▲** buttons to highlight '9 P V-WA"
5. Press the ◢+ or ◢- buttons to adjust the vertical centre.



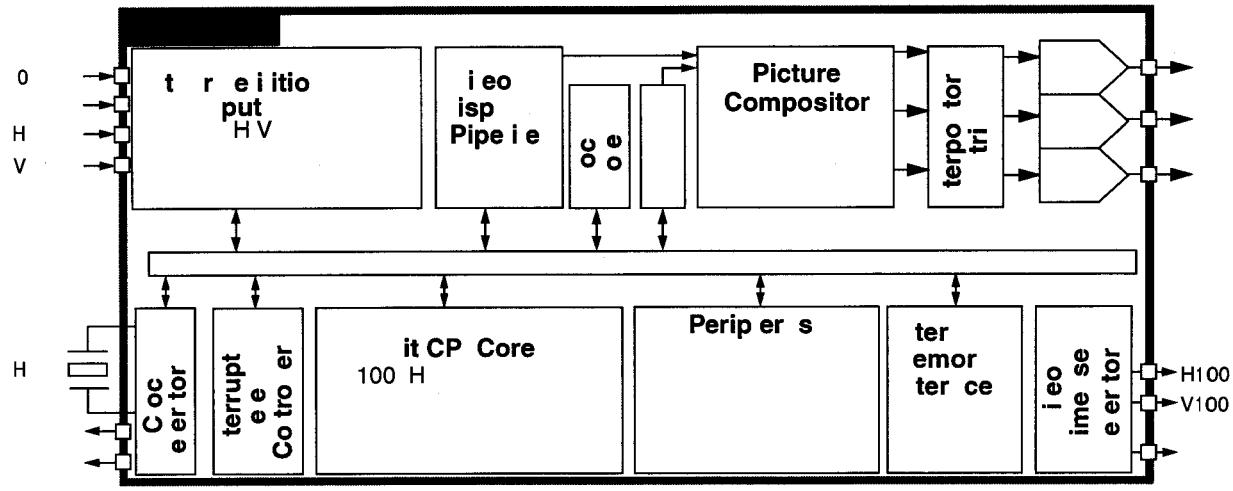
CPU PORT FUNCTIONS

IC801

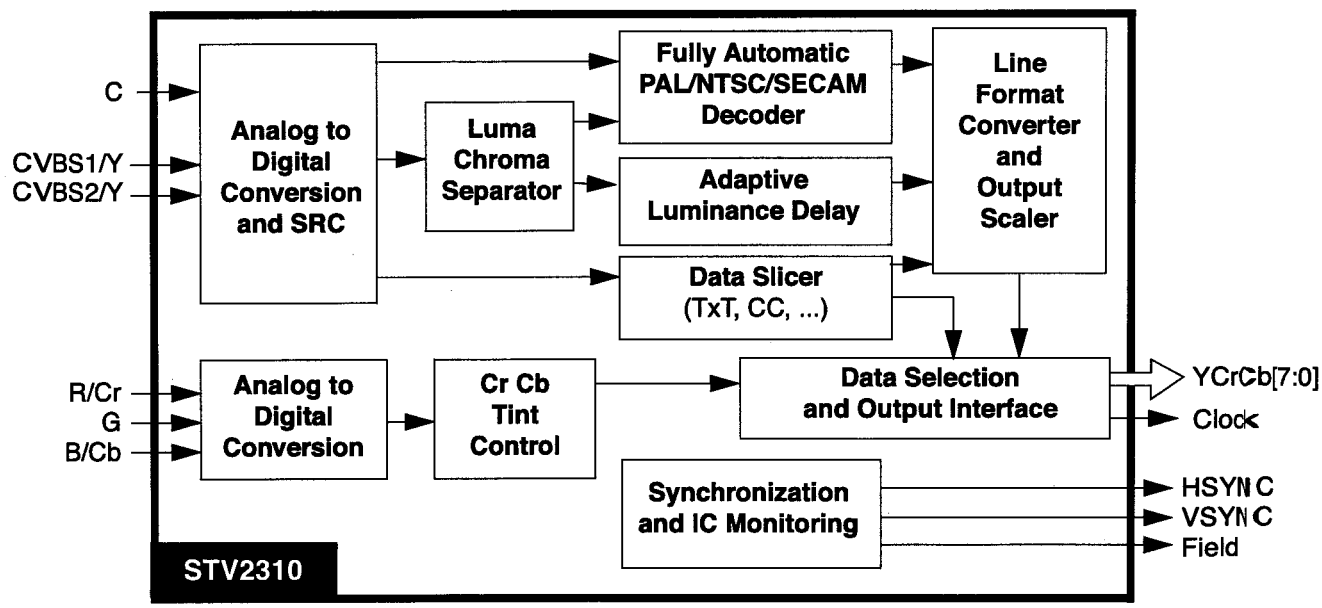


IC BLOCK DIAGRAMS

IC801



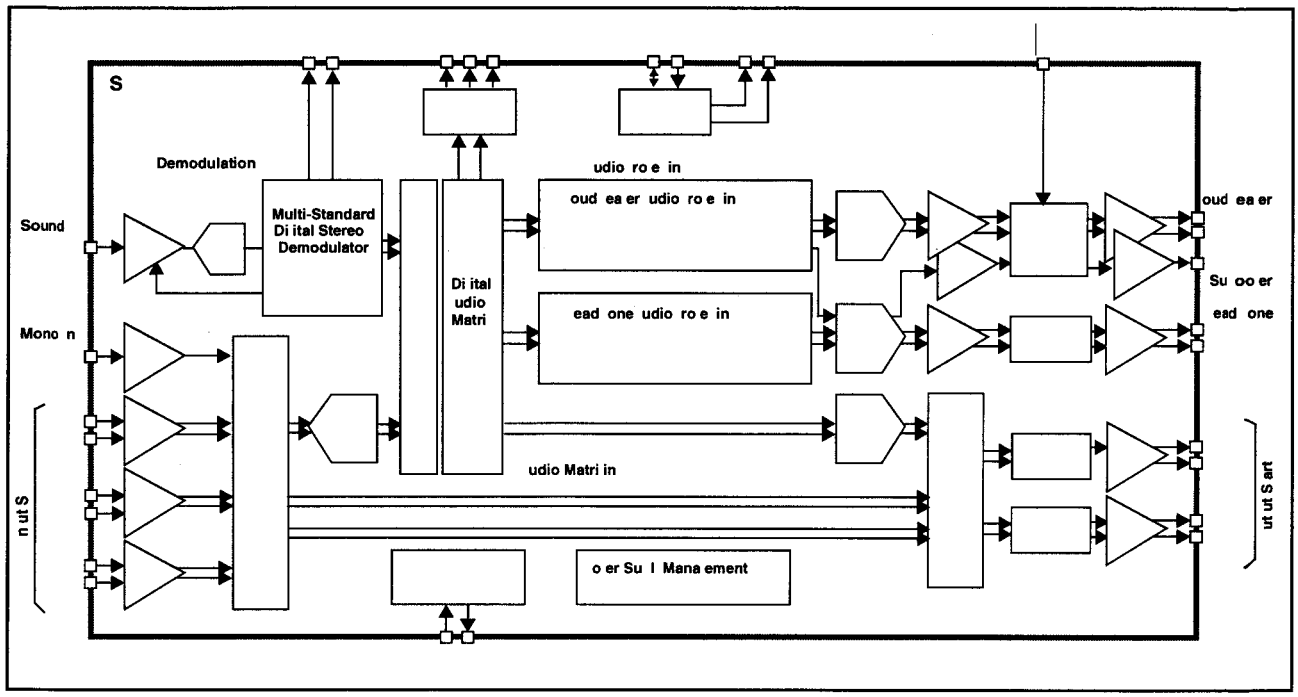
IC2001



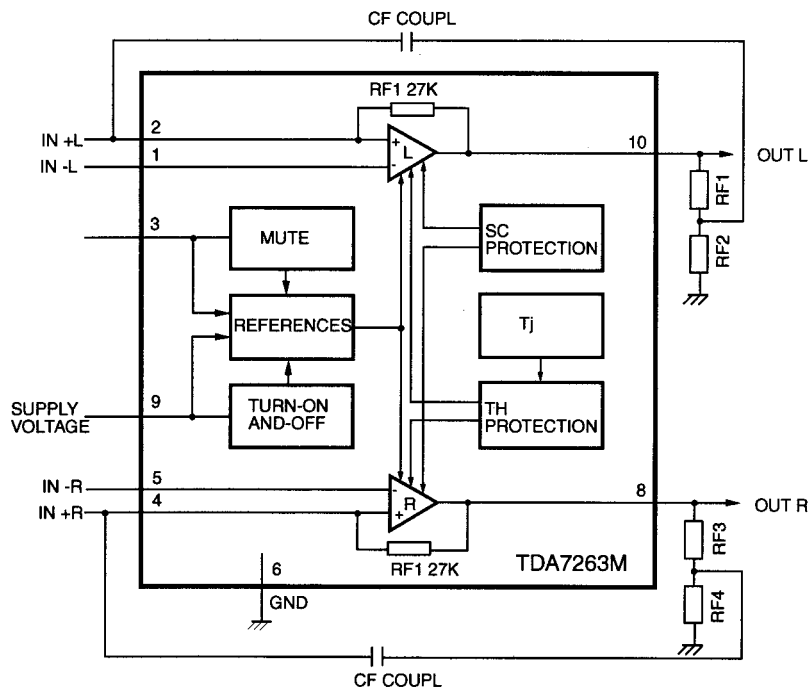
C5WEL

IC BLOCK DIAGRAMS

IC3451 STV8216T <NICAM & Stereo Sound Decoder>

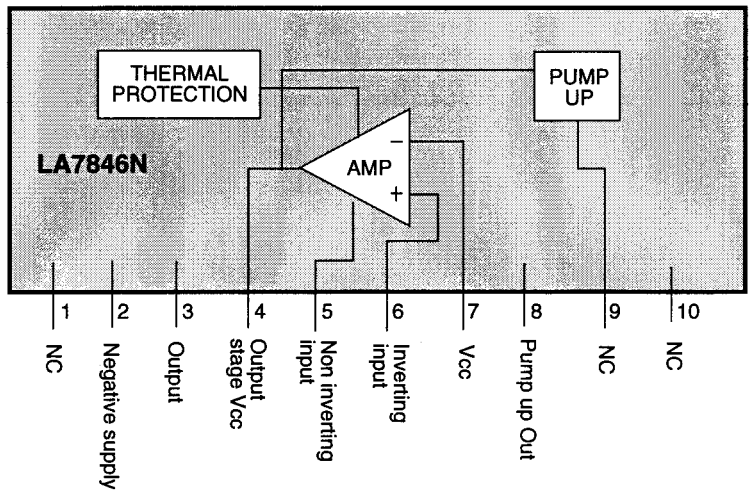


IC001 TDA7263M <Audio Output>



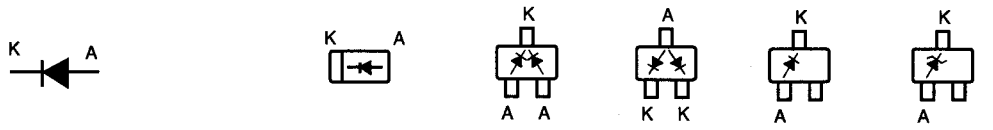
IC BLOCK DIAGRAMS

IC501 LA7846N <Vertical Output>



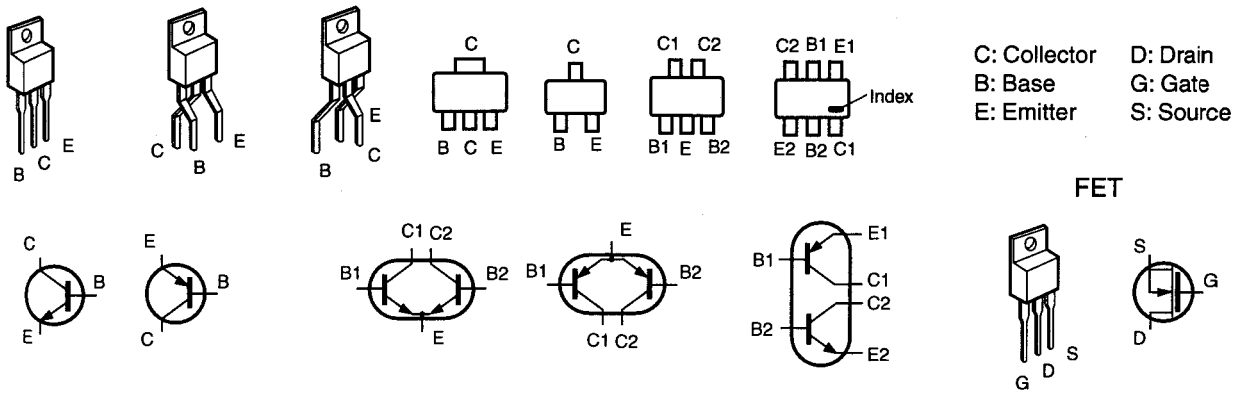
PIN DESCRIPTION OF SEMICONDUCTORS

● Diode



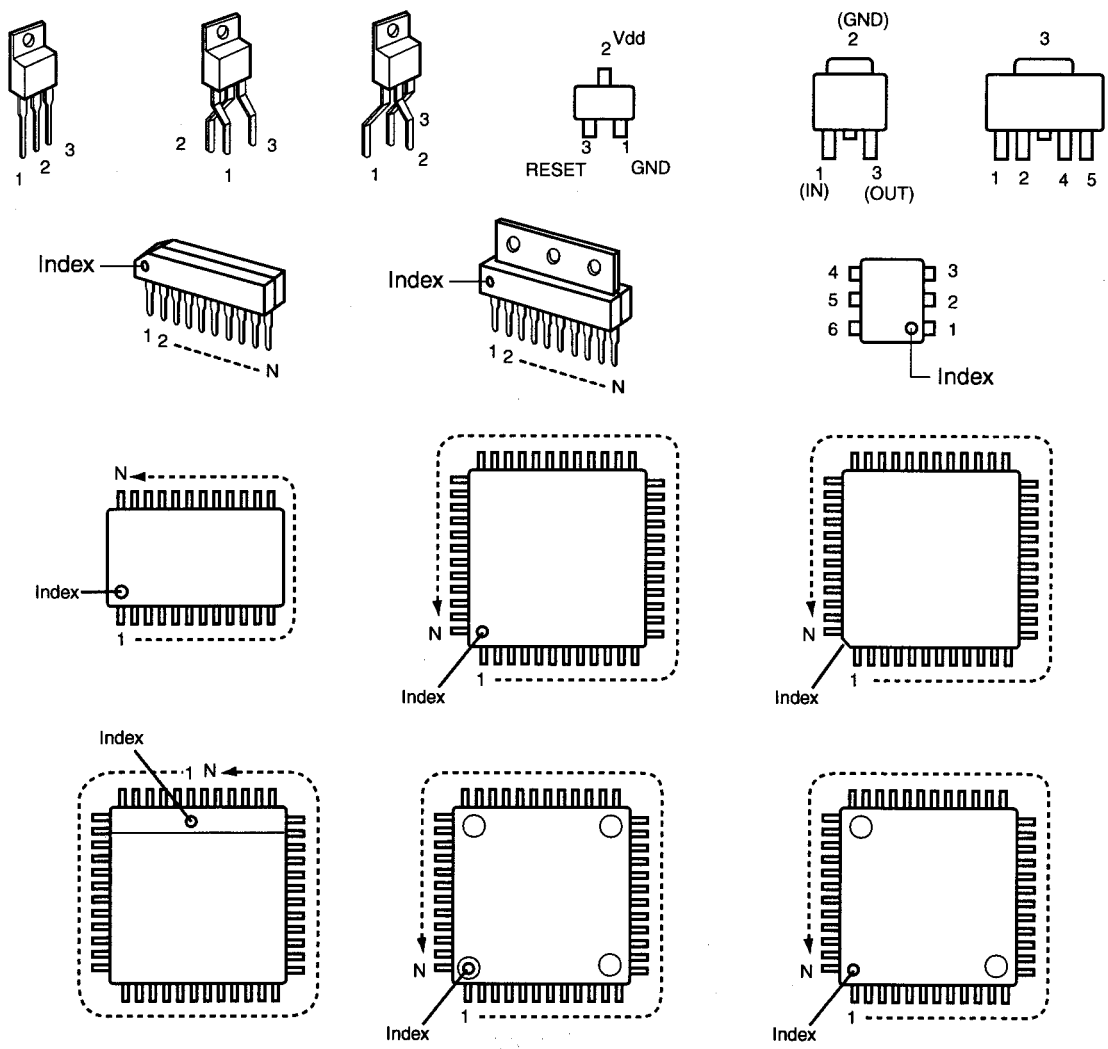
K: Cathode
A: Anode

● Transistor/FET



C: Collector D: Drain
B: Base G: Gate
E: Emitter S: Source

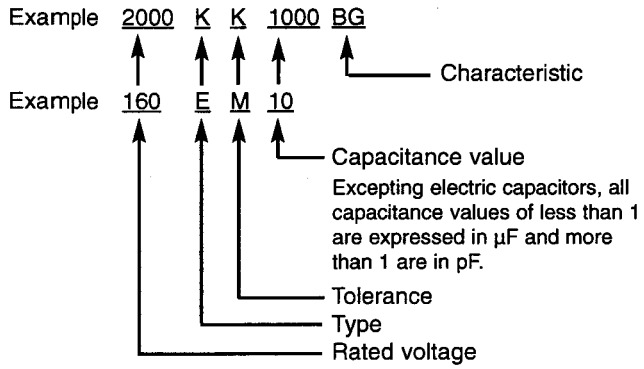
● IC



PARTS DESCRIPTION AND READING IN SCHEMATIC DIAGRAM

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video colour bar signal(1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmetre.

Capacitor Reading


Example 2000 K K 1000 BG
Characteristic
Example 160 E M 10
Capacitance value
Excepting electric capacitors, all capacitance values of less than 1 are expressed in µF and more than 1 are in pF.
Tolerance
Type
Rated voltage

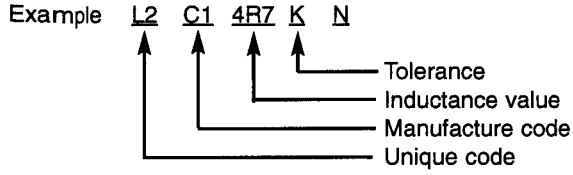
● Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-Polarised)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalised polypropylene
H	Metalised polypromylar
B	Ceramic (semiconductor)
G	Metalised polyester
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

● Tolerance table

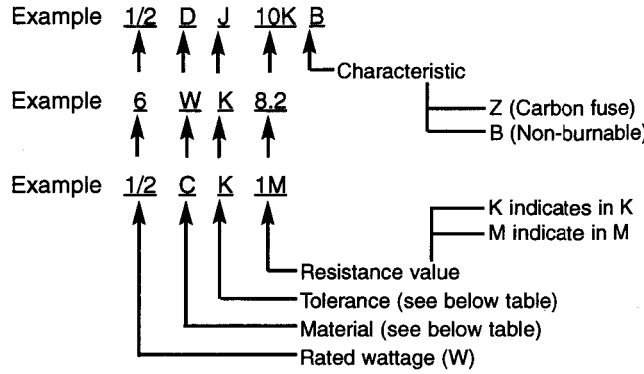
Mark	Tolerance
A	not specified
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
E	±2.5
H	±3
J	±5
K	± 0
M	±20
N	±30
P	+100 -0
Q	+30 -10
T	+50 -10
U	+75 -10
V	+20 -10
W	+100 -10
X	+40 -20
Y	+150 -10
Z	+80 -20

Coil Reading



Mark	Tolerance (nH)	Mark	Tolerance (%)
C	±0.25	G	±2
D	±0.5	J	±5
S	±0.3	K	±10
A	±0.2	L	±15
		M	±20

Resistor Reading



Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

● Material table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire wounding or cement
H	Ceramic
F	Fusible

● Tolerance table

Mark	Tolerance
A	±0.05
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
J	±5
K	±10
M	±20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

● Diode

Mark	Type number
--	1S1555,1S2473,1S2076,1SS133,DS442,1SS176
K	1S1555,1S2473,1S2076,DS442
L	1S1555,1S2076A,1S2471
M	1SS133,1SS176,GMA01
N	1S1555,1S2473,1S2076,1SS133,DS442,1SS176,1N4148
P	1S1555,1S2076A,1S2471,1N4148
R	1S1555,1S2076,1S2473,DS442,1N4148
AA	1S1555,1S2076,1S2473,1SS133,DS442,1SS176,1N4148,GMA01

● Transistor (NPN type)

Mark	Type number					
--	2SC536	2SC945A	2SC1815	2SC1740	2SC1740S	KSC945C
A	E, F, G	P, Q, R	O, Y, G	Q, R, S	Q, R, S	
B	E, F, G	P, Q, R	O, Y, G	Q, R, S		
D	F, G	P, Q	Y, G	Q, R, S		
F	F, G	P	G	R, S		
H	F, G	P, Q	Y, G	Q, R, S		Y, G
I	E, F, G	P, Q, R	O, Y, G	Q, R, S		Y, G
G	F, G	P	G	R, S		G
AD	F, G	Q, R	Y, GR		Q, R, S	
AE	E, F, G	Q, R	O, Y, GR		Q, R, S	

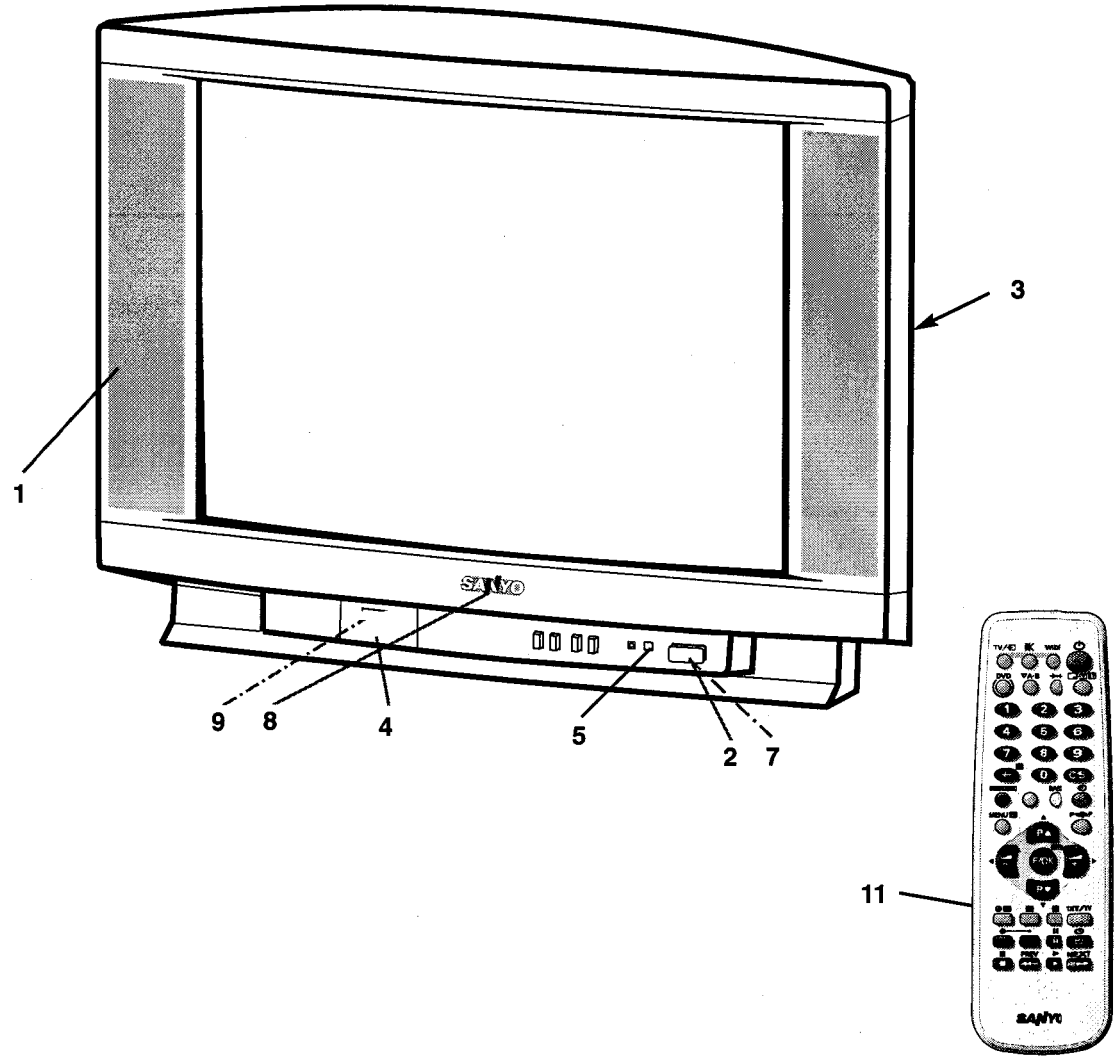
● Transistor (PNP type)

Mark	Type number					
--	2SA608	2SA564A	2SA1015	2SA933	2SA933S	KIA733C
Y	E, F	Q, R	O, Y, G	Q, R		
W	F	R	Y, G	R		
V	E, F	Q, R	O, Y, G	Q, R		Y, G
U	F	R	Y, G	R		G
Z	E, F	Q, R	O, Y, G	Q, R	Q, R	
AB	F	R	Y		Q, R	
AE	E, F	Q, R	O, Y		R	

C5WEL

CABINET PARTS LIST FOR MODEL CE28CHN4F-C-00

Note: Parts order must contain Service Ref. No., Part No., and descriptions.



Item	Part No.	Description
CABINET PARTS		
1	665 000 1640	CABINET FRONT-C5WA-A
2	610 297 9183	BUTTON POWER-C5WA
3	610 283 9982	CABINET BACK -C5WH
4	610 297 9206	DOOR-C5WA
5	610 297 9213	DEC IND-C5WA
6	610 253 2449	AC CORD HOLDER-U-D4VA
7	610 261 3032	COIL SPRING-E7GCS
8	645 043 5058	BADGE,SANYO*53.5X12L53.3
9	610 104 2505	LATCH PUSH,7.9X6.9BK
10	610 265 4202	HOLDER DC GBR-F3SC
ACCESSORIES		
11	645 052 2697	ASSY,REMOCON JXMTA
	645 054 9533	BATTERY ENERGIZER R6SH2VP
	665 000 0728	INST MANUAL - C5WE(1)
	665 000 0735	INST MANUAL - C5WE(2)

CHASSIS ELECTRICAL PARTS LIST

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark ⚠.

Note: Parts order must contain Service Ref. No., Part No., and descriptions.

Read description in the Capacitor and Resistor as follows:

CAPACITOR
CERAMIC 100P K 50V

- 50V — Rated Voltage
- K — Tolerance Symbols:

Less than 10PF

A: Not specified	B: ±0.1PF	C: ±0.25PF
D: ±0.5PF	F: ±1PF	G: ±2PF
R: ±0.25-0PF	S: ±0-0.25PF	E: +0-1PF

More than 10PF

A: Not specified	B: ±0.1%	C: ±0.25%
D: ±0.5%	F: ±1%	G: ±2%
H: ±3%	J: ±5%	K: ±10%
L: ±15%	M: ±20%	N: ±30%
P: +100-0%	Q: +30-10%	T: +50-10%
U: +75-10%	V: +20-10%	W:+100-10%
X: +40-20%	Y: +150-10%	Z: +80-20%

- 100P — Rated value: P=pico farad, U=Micro farad
- CERAMIC — Material:

CERAMIC .....Ceramic
MT-PAPER .....Metallized Paper
POLYESTER .....Polyester
MT-POLYEST .....Metallized Polyester
POLYPRO.....Polypropylene
MT-POLYPRO ....Metallized Polypropylene
COMPO FILM.....Composite film
MT-COMPO .....Metallized Composite
STYRENE.....Styrene
TA-SOLID .....Tantalum Solid
AL-SOLID .....Aluminium Solid
ELECT .....Electrolytic
NP-ELECT .....Non-polarised Electrolytic
OS-SOLID .....Aluminium Solid with Organic Semiconductive Electrolytic
DL-ELECT .....Double Layered Electrolytic

RESISTOR
CARBON 4.7K J A 1/4W

- 1/4W — Rated Wattage
- A — Performance Symbols:
  A: General B: Non flammable Z: Low noise
  Other: Temperature coefficient
- J — Tolerance Symbols:
  A: ±0.05% B: ±0.1% C: ±0.25% D: ±0.5%
  F: ±1% G: ±2% J: ±5% K: ±10%
  M: ±20% P: +5-15%
- 4.7K — Rated value, ohms:
  K: 1,000, M: 1,000,000
- CARBON — Material:

CARBON .....Carbon
MT-FILM.....Metal Film
OXIDE-MT .....Oxide Metal Film
SOLID .....Composition
MT-GLAZE .....Metal Glaze
WIRE WOUND ....Wire Wound
CERAMIC RES....Ceramic
FUSIBLE RES ....Fusible

Ref. No.	Part No.	Description

Chassis construction

CE28CHN4F-C-00

013C5WEL	ELECTRICAL PARTS	(PAGE 17)
1AA0B10E67500	ASSY,PWB,SIGNAL C5WEL	(PAGE 17-22)
1AA0B10E6810A	ASSY,PWB,SCART C6BLL	(PAGE 22-23)
1AA0B10E6810B	ASSY,PWB,CRT C6BLL	(PAGE 23)
1AA0B10E673BA	ASSY,PWB,EMC SCREEN	(PAGE 23)
1AA0B10E673B0	ASSY,PWB,POWER/DEF HB3B	(PAGE 23-26)

013C5WEL ELECTRICAL PARTS

COIL

⚠ L901	645 060 9855	PRE-FORM,D-COIL,28-TOTOKU	

PICTURE TUBE

⚠ Q901	414 012 2202	PHILIPS A66EAK075X44	

MISCELLANEOUS

⚠ SP901	645 052 7425	L/SP FB-095C-A1222	
⚠ SP902	645 052 7425	L/SP FB-095C-A1222	
⚠ W901	645 012 7632	EURO PLUG +2P HOUSE @ 2.1	
⚠ W902	1KA4W30B00900	GND CONNECTOR HB3B 28"	

1AA0B10E67500 ASSY,PWB,SIGNAL C5WEL

CAPACITOR

C101	403 051 0607	ELECT	4.7U M	50V
C102	403 039 9004	ELECT	1000U M	10V
C1020	401 105 7919	MT-GLAZE	0.000 ZA	1/16W
C104	403 049 4204	ELECT	10U M	50V
C105	403 195 8804	ELECT	100U M	16V
C106	401 105 7919	MT-GLAZE	0.000 ZA	1/16W
C109	403 215 2211	GRM188R71H103KA01D	PT115	
C120	403 215 2211	GRM188R71H103KA01D	PT115	
C1200	403 164 0214	GRM188F51E104ZA01D	PT115	
C1202	403 248 1618	ELECT	47U M	16V
C1203	403 215 2211	GRM188R71H103KA01D	PT115	
C1205	403 164 0214	GRM188F51E104ZA01D	PT115	
C1206	403 145 9915	GRM1885C1H220JZ01D	PT115	
C1207	403 149 9218	GRM188F51H103ZA01D	PT115	
C121	403 157 6513	CERAMIC	390P K	50V
C1211	403 153 9310	GRM1885C1H820JZ01D	PT115	
C1212	403 153 9310	GRM1885C1H820JZ01D	PT115	
C1213	403 164 0214	GRM188F51E104ZA01D	PT115	
C1218	403 153 9310	GRM1885C1H820JZ01D	PT115	
C122	403 215 2211	GRM188R71H103KA01D	PT115	
C1225	403 085 7900	NP-ELECT	100U M	25V
C123	403 314 5915	GRM21BR71C474KA01L	PT297	
C126	403 139 7118	GRM1885C1H120JZ01		
C1261	403 164 0214	GRM188F51E104ZA01D	PT115	
C1262	403 049 4204	ELECT	10U M	50V
C1269	403 153 9310	GRM1885C1H820JZ01D	PT115	
C1270	403 164 0214	GRM188F51E104ZA01D	PT115	
C128	403 314 5915	GRM21BR71C474KA01L	PT297	
C129	403 269 5916	GRM219R71C224KC01D	PT115	
C130	403 155 2111	GRM188R71H152KD01D	PT115	
C131	403 215 2211	GRM188R71H103KA01D	PT115	
C132	403 215 2211	GRM188R71H103KA01D	PT115	
C133	403 049 4204	ELECT	10U M	50V

Ref. No.	Part No.	Description
C134	403 149 9218	GRM188F51H103ZA01D PT115
C137	403 256 5011	CERAMIC 560P J 50V
C138	403 256 5011	CERAMIC 560P J 50V
C141	403 215 2211	GRM188R71H103KA01D PT115
C142	403 153 9112	GRM1885C1H5R0CD01D PT115
C143	403 157 3314	GRM1885C1H680JZ01
C144	403 153 9112	GRM1885C1H5R0CD01D PT115
C145	403 215 2211	GRM188R71H103KA01D PT115
C146	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
C148	403 215 2211	GRM188R71H103KA01D PT115
C149	403 215 2211	GRM188R71H103KA01D PT115
C1670	403 215 2211	GRM188R71H103KA01D PT115
C1671	403 049 4204	ELECT 10U M 50V
C1672	403 149 9218	GRM188F51H103ZA01D PT115
C1673	403 049 4204	ELECT 10U M 50V
C1674	403 298 9619	GRM188R71C104KA01D PT115
C1675	403 041 0709	ELECT 3300U M 10V
C1676	403 149 9218	GRM188F51H103ZA01D PT115
C1677	403 195 8804	ELECT 100U M 16V
C1678	403 149 9218	GRM188F51H103ZA01D PT115
C1679	403 049 4204	ELECT 10U M 50V
C1681	403 049 4204	ELECT 10U M 50V
C1682	403 164 0214	GRM188F51E104ZA01D PT115
C1683	403 149 9218	GRM188F51H103ZA01D PT115
C2000	403 164 0214	GRM188F51E104ZA01D PT115
C2001	403 164 0214	GRM188F51E104ZA01D PT115
C2002	403 298 9619	GRM188R71C104KA01D PT115
C2003	403 113 3815	GRM188R71H102KA01D PT115
C2004	403 164 0214	GRM188F51E104ZA01D PT115
C2005	403 215 0910	CERAMIC 390P J 50V
C2006	403 215 0910	CERAMIC 390P J 50V
C2007	403 164 0214	GRM188F51E104ZA01D PT115
C2008	403 040 1727	ELECT 22U M 10V
C2009	403 215 0910	CERAMIC 390P J 50V
C201	403 195 8804	ELECT 100U M 16V
C2010	403 215 0910	CERAMIC 390P J 50V
C2011	403 164 0214	GRM188F51E104ZA01D PT115
C2012	403 040 1727	ELECT 22U M 10V
C2013	403 040 1727	ELECT 22U M 10V
C2014	403 215 0910	CERAMIC 390P J 50V
C2015	403 040 1727	ELECT 22U M 10V
C2016	403 164 0214	GRM188F51E104ZA01D PT115
C2017	403 164 0214	GRM188F51E104ZA01D PT115
C2018	403 164 0214	GRM188F51E104ZA01D PT115
C2019	403 164 0214	GRM188F51E104ZA01D PT115
C202	403 164 0214	GRM188F51E104ZA01D PT115
C2021	403 164 0214	GRM188F51E104ZA01D PT115
C2022	403 040 1727	ELECT 22U M 10V
C2023	403 215 0910	CERAMIC 390P J 50V
C2024	403 164 0214	GRM188F51E104ZA01D PT115
C2025	403 040 1727	ELECT 22U M 10V
C2026	403 215 0910	CERAMIC 390P J 50V
C2027	403 215 0910	CERAMIC 390P J 50V
C2028	403 164 0214	GRM188F51E104ZA01D PT115
C2029	403 049 4204	ELECT 10U M 50V
C2030	403 164 0214	GRM188F51E104ZA01D PT115
C2031	403 157 4212	GRM1885C1H221JZ01D PT115
C2032	403 157 2515	GRM1885C1H270JZ01D PT115
C2034	403 157 3819	GRM1885C1H121JZ01D PT115
C2036	403 164 0214	GRM188F51E104ZA01D PT115
C2037	403 166 9512	GRM188R71C223KA01
C2038	403 166 9512	GRM188R71C223KA01
C2039	403 166 9512	GRM188R71C223KA01
C2040	403 155 1510	GRM1885C1H181JZ01D PT115
C2041	403 233 3818	GRM1885C1H100JD01D PT115
C2042	403 155 1510	GRM1885C1H181JZ01D PT115
C2043	403 155 1510	GRM1885C1H181JZ01D PT115
C2044	403 233 3818	GRM1885C1H100JD01D PT115
C2045	403 155 1510	GRM1885C1H181JZ01D PT115
C2046	403 155 1510	GRM1885C1H181JZ01D PT115

Ref. No.	Part No.	Description
C2047	403 233 3818	GRM1885C1H100JD01D PT115
C2048	403 155 1510	GRM1885C1H181JZ01D PT115
C205	403 157 2911	GRM1885C1H470JZ01D PT115
C2051	403 155 1510	GRM1885C1H181JZ01D PT115
C2052	403 172 6116	GRM1885C1H271JD01D PT115
C2053	403 233 3818	GRM1885C1H100JD01D PT115
C2067	403 157 3314	GRM1885C1H680JZ01
C208	403 164 0214	GRM188F51E104ZA01D PT115
C211	403 164 0214	GRM188F51E104ZA01D PT115
C214	403 164 0214	GRM188F51E104ZA01D PT115
C222	403 039 9004	ELECT 1000U M 10V
C223	403 164 0214	GRM188F51E104ZA01D PT115
C224	403 164 0214	GRM188F51E104ZA01D PT115
C225	403 164 0214	GRM188F51E104ZA01D PT115
C231	403 237 8057	MT-COMPO 0.1U J 50V
C232	403 224 1301	ELECT 47U U 16V
C233	403 149 9218	GRM188F51H103ZA01D PT115
C234	403 237 8057	MT-COMPO 0.1U J 50V
C236	403 237 8057	MT-COMPO 0.1U J 50V
C237	403 157 2515	GRM1885C1H270JZ01D PT115
C238	403 233 3818	GRM1885C1H100JD01D PT115
C241	403 164 0214	GRM188F51E104ZA01D PT115
C242	403 164 0214	GRM188F51E104ZA01D PT115
C243	403 164 0214	GRM188F51E104ZA01D PT115
C244	403 275 3012	CERAMIC 0.047U K 16V
C247	403 164 0214	GRM188F51E104ZA01D PT115
C248	403 164 0214	GRM188F51E104ZA01D PT115
C249	403 164 0214	GRM188F51E104ZA01D PT115
C252	403 149 9218	GRM188F51H103ZA01D PT115
C253	403 149 9218	GRM188F51H103ZA01D PT115
C256	403 149 9218	GRM188F51H103ZA01D PT115
C257	403 224 1301	ELECT 47U U 16V
C259	403 155 1510	GRM1885C1H181JZ01D PT115
C261	403 157 2911	GRM1885C1H470JZ01D PT115
C263	403 298 9619	GRM188R71C104KA01D PT115
C266	403 041 4529	ELECT 470U M 10V
C267	403 149 9218	GRM188F51H103ZA01D PT115
C270	403 113 3815	GRM188R71H102KA01D PT115
C271	403 042 0817	ELECT 16MS7 10M TZ 0407
C272	403 075 6916	CERAMIC 100P K 500V
C273	403 157 6315	CERAMIC 270P K 50V
C274	403 149 9218	GRM188F51H103ZA01D PT115
C3400	403 149 9218	GRM188F51H103ZA01D PT115
C3405	403 042 0817	ELECT 16MS7 10M TZ 0407
C3408	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
C3421	403 195 8824	ELECT 100U M 16V
C3431	403 157 3611	GRM1885C1H101JZ01D PT115
C3433	403 157 3611	GRM1885C1H101JZ01D PT115
C3435	403 051 0627	ELECT 4.7U M 50V
C3436	403 051 0627	ELECT 4.7U M 50V
C3442	403 279 4312	GRM21BR71C334KA01L PT297
C3444	403 279 4312	GRM21BR71C334KA01L PT297
C3446	403 279 4312	GRM21BR71C334KA01L PT297
C3448	403 279 4312	GRM21BR71C334KA01L PT297
C3449	403 164 0214	GRM188F51E104ZA01D PT115
C3450	403 038 3409	ELECT 1000U M 6.3V
C3451	403 269 5916	GRM219R71C224KC01D PT115
C3452	403 164 0214	GRM188F51E104ZA01D PT115
C3453	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
C3454	403 157 3611	GRM1885C1H101JZ01D PT115
C3455	403 164 0214	GRM188F51E104ZA01D PT115
C3456	403 207 0317	GRM21BF51C105ZA01L PT297
C3457	403 051 0627	ELECT 4.7U M 50V
C3458	403 051 0627	ELECT 4.7U M 50V
C3459	403 038 3409	ELECT 1000U M 6.3V
C3461	403 049 4224	ELECT 10U M 50V
C3462	403 164 0214	GRM188F51E104ZA01D PT115
C3463	403 049 4224	ELECT 10U M 50V
C3464	403 164 0214	GRM188F51E104ZA01D PT115
C3465	403 164 0214	GRM188F51E104ZA01D PT115

Ref. No.	Part No.	Description
C3466	403 038 3409	ELECT 1000U M 6.3V
C3467	403 164 0214	GRM188F51E104ZA01D PT115
C3468	403 049 4224	ELECT 10U M 50V
C3469	403 164 0214	GRM188F51E104ZA01D PT115
C3470	403 049 4224	ELECT 10U M 50V
C3473	403 207 0317	GRM21BF51C105ZA01L PT297
C3474	403 207 0317	GRM21BF51C105ZA01L PT297
C3475	403 215 2211	GRM188R71H103KA01D PT115
C3476	403 215 2211	GRM188R71H103KA01D PT115
C3477	403 049 4224	ELECT 10U M 50V
C3478	403 164 0214	GRM188F51E104ZA01D PT115
C3479	403 164 0214	GRM188F51E104ZA01D PT115
C3481	403 145 9915	GRM1885C1H220JZ01D PT115
C3482	403 145 9915	GRM1885C1H220JZ01D PT115
C3483	403 164 0214	GRM188F51E104ZA01D PT115
C3484	403 164 0214	GRM188F51E104ZA01D PT115
C3485	403 164 0214	GRM188F51E104ZA01D PT115
C3486	403 164 0214	GRM188F51E104ZA01D PT115
C370	403 149 9218	GRM188F51H103ZA01D PT115
C801	403 164 0214	GRM188F51E104ZA01D PT115
C802	403 164 0214	GRM188F51E104ZA01D PT115
C805	403 164 0214	GRM188F51E104ZA01D PT115
C806	403 164 0214	GRM188F51E104ZA01D PT115
C807	403 040 1727	ELECT 22U M 10V
C808	403 040 1727	ELECT 22U M 10V
C809	403 164 0214	GRM188F51E104ZA01D PT115
C810	403 164 0214	GRM188F51E104ZA01D PT115
C811	403 164 0214	GRM188F51E104ZA01D PT115
C812	403 164 0214	GRM188F51E104ZA01D PT115
C813	403 164 0214	GRM188F51E104ZA01D PT115
C814	403 164 0214	GRM188F51E104ZA01D PT115
C815	403 164 0214	GRM188F51E104ZA01D PT115
C816	403 164 0214	GRM188F51E104ZA01D PT115
C818	403 040 1727	ELECT 22U M 10V
C819	403 164 0214	GRM188F51E104ZA01D PT115
C820	403 155 4610	CERAMIC MURATA 4P C 50V
C821	403 155 4610	CERAMIC MURATA 4P C 50V
C822	403 215 0910	CERAMIC 390P J 50V
C823	403 164 0214	GRM188F51E104ZA01D PT115
C824	403 164 0214	GRM188F51E104ZA01D PT115
C825	403 215 0910	CERAMIC 390P J 50V
C826	403 164 0214	GRM188F51E104ZA01D PT115
C827	403 145 9915	GRM1885C1H220JZ01D PT115
C828	403 145 9915	GRM1885C1H220JZ01D PT115
C829	403 043 9136	ELECT 47U M 16V
C830	403 049 4224	ELECT 10U M 50V
C831	403 215 0910	CERAMIC 390P J 50V
C832	403 164 0214	GRM188F51E104ZA01D PT115
C833	403 164 0214	GRM188F51E104ZA01D PT115
C834	403 215 0910	CERAMIC 390P J 50V
C835	403 164 0214	GRM188F51E104ZA01D PT115
C836	403 040 1707	ELECT 22U M 10V
C838	403 164 0214	GRM188F51E104ZA01D PT115
C839	403 155 2319	GRM188R71H472KA01D PT115
C841	403 040 1727	ELECT 22U M 10V
C842	403 164 0214	GRM188F51E104ZA01D PT115
C843	403 164 0214	GRM188F51E104ZA01D PT115
C844	403 164 0214	GRM188F51E104ZA01D PT115
C850	403 215 0910	CERAMIC 390P J 50V
C851	403 215 0910	CERAMIC 390P J 50V
C852	403 215 0910	CERAMIC 390P J 50V
C853	403 215 0910	CERAMIC 390P J 50V
C854	403 215 0910	CERAMIC 390P J 50V
C856	403 215 0910	CERAMIC 390P J 50V
C857	403 215 0910	CERAMIC 390P J 50V
C858	403 215 0910	CERAMIC 390P J 50V
C863	403 215 2211	GRM188R71H103KA01D PT115

DIODE

D1041	407 149 0817	DIODE 1SS355-TE-17
D1042	407 149 0817	DIODE 1SS355-TE-17
D1202	407 206 5618	ZENER D. UDZS-TE-1710B
D1203	407 206 5618	ZENER D. UDZS-TE-1710B
D121	407 166 1118	DIODE 1SS356-TW11
D1259	407 206 5618	ZENER D. UDZS-TE-1710B
D1267	407 206 5618	ZENER D. UDZS-TE-1710B
D131	407 166 1118	DIODE 1SS356-TW11
D132	407 166 1118	DIODE 1SS356-TW11
D1673	407 004 1020	DIODE DCC010-TA
D1674	407 004 1020	DIODE DCC010-TA
D1675	407 149 0817	DIODE 1SS355-TE-17
D237	407 149 0817	DIODE 1SS355-TE-17
D238	407 149 0817	DIODE 1SS355-TE-17
D239	407 149 0817	DIODE 1SS355-TE-17
D241	407 149 0817	DIODE 1SS355-TE-17
D251	407 149 0817	DIODE 1SS355-TE-17
D253	407 221 7116	ZENER D. UDZS-TE-1712B
D254	407 221 7116	ZENER D. UDZS-TE-1712B
D255	407 221 7116	ZENER D. UDZS-TE-1712B
D256	407 221 7116	ZENER D. UDZS-TE-1712B
D262	407 149 0817	DIODE 1SS355-TE-17
D264	407 209 4519	ZENER D. UDZS-TE-176.8B
D3421	407 149 0817	DIODE 1SS355-TE-17
D3441	407 206 5618	ZENER D. UDZS-TE-1710B
D3442	407 206 5618	ZENER D. UDZS-TE-1710B
D3443	407 206 5618	ZENER D. UDZS-TE-1710B
D3444	407 206 5618	ZENER D. UDZS-TE-1710B
D3445	407 149 0817	DIODE 1SS355-TE-17
D803	407 149 0817	DIODE 1SS355-TE-17
D851	407 149 0817	DIODE 1SS355-TE-17
D852	407 149 0817	DIODE 1SS355-TE-17

INTEGRATED CIRCUIT

IC101	409 549 8219	IC TDA9886TS/V4
IC1201	409 573 1702	IC BA7615N
IC1671	409 429 1207	IC BA033T
IC1672	409 548 6008	IC TA48018S
IC1674	409 416 7908	IC BA05T
IC1675	409 429 1207	IC BA033T
IC1676	409 548 6008	IC TA48018S
IC2001	409 568 8719	IC STV2310D
IC202	410 395 3201	IC TDA9330H/N2C
IC3451	409 550 6815	IC STV8216T
IC801	665 000 1336	IC STV3500D CUT 4.0
IC802	409 578 2110	IC M29W160ET70N6
IC803	410 457 0001	IC HY57V281620HCT-H
IC804	QM24C64WMN6-P	IC M24C64WMN6T

COIL

L1202	645 004 0306	PEAKING COIL 4.7
L1203	645 004 0306	PEAKING COIL 4.7
L1205	645 004 0306	PEAKING COIL 4.7
L1670	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
L1671	645 036 3894	BLM21PG221SN1D E258
L1672	645 036 3894	BLM21PG221SN1D E258
L1673	645 036 3894	BLM21PG221SN1D E258
L1674	645 036 3894	BLM21PG221SN1D E258
L1675	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
L1678	645 018 9326	INDUCTOR,1000 OHM
L2000	645 036 3894	BLM21PG221SN1D E258
L2001	645 004 0313	INDUCTOR,5.6U LAV35VB5R6K
L2002	645 036 3894	BLM21PG221SN1D E258
L2003	645 036 3894	BLM21PG221SN1D E258
L2004	645 036 3894	BLM21PG221SN1D E258
L2005	645 036 3894	BLM21PG221SN1D E258
L2006	645 036 3894	BLM21PG221SN1D E258
L2008	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
L201	645 004 0344	INDUCTOR,10UK LAV35VB100K
L2010	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
L2021	645 004 0313	INDUCTOR,5.6U LAV35VB5R6K

Ref. No.	Part No.	Description
L2024	645 004 0313	INDUCTOR,5.6U LAV35VB5R6K
L2025	645 004 0313	INDUCTOR,5.6U LAV35VB5R6K
L2026	645 004 0313	INDUCTOR,5.6U LAV35VB5R6K
L231	645 004 0405	INDUCTOR,33UK LAV35VB330K
L232	645 004 0405	INDUCTOR,33UK LAV35VB330K
L233	645 004 0221	INDUCTOR,1U K LAV35VB1R0K
L3452	645 036 3894	BLM21PG221SN1D E258
L3453	645 036 3894	BLM21PG221SN1D E258
L841	645 018 9326	INDUCTOR,1000 OHM
L842	645 018 9326	INDUCTOR,1000 OHM
L843	645 018 9326	INDUCTOR,1000 OHM
L844	645 018 9326	INDUCTOR,1000 OHM
L845	645 018 9326	INDUCTOR,1000 OHM
L846	645 018 9326	INDUCTOR,1000 OHM
L847	645 018 9326	INDUCTOR,1000 OHM
L848	645 018 9326	INDUCTOR,1000 OHM
L849	645 018 9326	INDUCTOR,1000 OHM
L850	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
TRANSISTOR		
Q1041	406 017 2400	TR BC847B,215 3000/REEL
Q1042	406 017 2103	TR BC857B,215 3000/REEL
Q1043	406 017 2400	TR BC847B,215 3000/REEL
Q1044	406 017 2103	TR BC857B,215 3000/REEL
Q1202	406 017 2400	TR BC847B,215 3000/REEL
Q1261	406 017 2400	TR BC847B,215 3000/REEL
Q1262	406 017 2400	TR BC847B,215 3000/REEL
Q131	406 017 2400	TR BC847B,215 3000/REEL
Q133	406 017 2400	TR BC847B,215 3000/REEL
Q134	406 017 2103	TR BC857B,215 3000/REEL
Q141	405 015 9721	TR 2SC2814-F4-TB
Q151	406 017 2400	TR BC847B,215 3000/REEL
Q152	406 017 2400	TR BC847B,215 3000/REEL
Q201	406 017 2103	TR BC857B,215 3000/REEL
Q202	406 017 2400	TR BC847B,215 3000/REEL
Q203	406 017 2103	TR BC857B,215 3000/REEL
Q204	406 017 2400	TR BC847B,215 3000/REEL
Q205	406 017 2103	TR BC857B,215 3000/REEL
Q206	406 017 2400	TR BC847B,215 3000/REEL
Q233	406 017 2103	TR BC857B,215 3000/REEL
Q235	406 017 2400	TR BC847B,215 3000/REEL
Q236	406 017 2400	TR BC847B,215 3000/REEL
Q237	406 017 2400	TR BC847B,215 3000/REEL
Q261	406 017 2400	TR BC847B,215 3000/REEL
Q262	406 017 2103	TR BC857B,215 3000/REEL
Q263	406 017 2400	TR BC847B,215 3000/REEL
Q3421	406 017 2103	TR BC857B,215 3000/REEL
Q3422	406 017 2400	TR BC847B,215 3000/REEL
Q811	406 017 2103	TR BC857B,215 3000/REEL
Q814	406 017 2400	TR BC847B,215 3000/REEL
RESISTOR		
RB2001	645 058 8853	R-NETWORK 33X4 0.063W
RB2002	645 058 8853	R-NETWORK 33X4 0.063W
RB2003	645 058 8853	R-NETWORK 33X4 0.063W
RB801	645 058 8853	R-NETWORK 33X4 0.063W
RB802	645 058 8853	R-NETWORK 33X4 0.063W
RB803	645 058 8853	R-NETWORK 33X4 0.063W
RB804	645 058 8853	R-NETWORK 33X4 0.063W
RB805	645 058 8853	R-NETWORK 33X4 0.063W
RB806	645 058 8853	R-NETWORK 33X4 0.063W
RB808	645 058 8853	R-NETWORK 33X4 0.063W
RB809	645 058 8853	R-NETWORK 33X4 0.063W
RB810	645 058 8853	R-NETWORK 33X4 0.063W
RB811	645 058 8853	R-NETWORK 33X4 0.063W
RB812	645 058 8853	R-NETWORK 33X4 0.063W
RB813	645 058 8853	R-NETWORK 33X4 0.063W
RB815	645 058 8853	R-NETWORK 33X4 0.063W
R101	401 105 0415	MT-GLAZE 100 JA 1/16W
R102	401 105 0415	MT-GLAZE 100 JA 1/16W
R103	401 105 6417	MT-GLAZE 68 JA 1/16W
R1034	401 105 0613	MT-GLAZE 10K JA 1/16W
R104	401 105 6011	MT-GLAZE 5.6K JA 1/16W
R1041	401 105 2914	MT-GLAZE 22K JA 1/16W
R1042	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R1043	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R1044	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R1046	401 105 2914	MT-GLAZE 22K JA 1/16W
R1047	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R105	401 105 0514	MT-GLAZE 1K JA 1/16W
R106	401 105 2617	MT-GLAZE ERJ-3GEYJ220V
R107	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R108	401 105 2716	MT-GLAZE 220 JA 1/16W
R116	401 105 0415	MT-GLAZE 100 JA 1/16W
R118	401 105 0613	MT-GLAZE 10K JA 1/16W
R120	401 105 6011	MT-GLAZE 5.6K JA 1/16W
R1201	401 105 3218	MT-GLAZE 270 JA 1/16W
R1206	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R121	401 105 0415	MT-GLAZE 100 JA 1/16W
R1215	401 105 3317	MT-GLAZE 2.7K JA 1/16W
R1216	401 105 4611	MT-GLAZE 3.9K JA 1/16W
R1217	401 105 5212	MT-GLAZE 470 JA 1/16W
R122	401 105 0415	MT-GLAZE 100 JA 1/16W
R123	401 105 3317	MT-GLAZE 2.7K JA 1/16W
R1230	401 105 3218	MT-GLAZE 270 JA 1/16W
R125	401 105 8213	MT-GLAZE ERJ 3GEYJ683V
R126	401 105 0613	MT-GLAZE 10K JA 1/16W
R1260	401 105 0514	MT-GLAZE 1K JA 1/16W
R1261	401 105 4611	MT-GLAZE 3.9K JA 1/16W
R1262	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R1263	401 105 0712	MT-GLAZE 100K JA 1/16W
R1264	401 105 6516	MT-GLAZE 680 JA 1/16W
R127	401 105 0613	MT-GLAZE 10K JA 1/16W
R128	401 105 4017	MT-GLAZE 330 JA 1/16W
R1283	401 113 4412	MT-GLAZE 75 JA 1/16W
R1284	401 105 3218	MT-GLAZE 270 JA 1/16W
R1285	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R1286	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R130	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R131	401 105 5915	MT-GLAZE 560 JA 1/16W
R137	401 105 0415	MT-GLAZE 100 JA 1/16W
R138	401 105 2716	MT-GLAZE 220 JA 1/16W
R139	401 105 3218	MT-GLAZE 270 JA 1/16W
R140	401 105 5212	MT-GLAZE 470 JA 1/16W
R145	401 105 8213	MT-GLAZE ERJ 3GEYJ683V
R146	401 105 2914	MT-GLAZE 22K JA 1/16W
R147	401 105 0613	MT-GLAZE 10K JA 1/16W
R148	401 105 0613	MT-GLAZE 10K JA 1/16W
R149	401 105 5816	MT-GLAZE 56 JA 1/16W
R150	401 105 4215	MT-GLAZE 33K JA 1/16W
R152	401 105 3416	MT-GLAZE 27K JA 1/16W
R161	401 105 1115	MT-GLAZE 12K JA 1/16W
R162	401 105 0613	MT-GLAZE 10K JA 1/16W
⚠ R1671	401 068 6209	OXIDE-MT 5.6 JA 2W
⚠ R1672	401 068 6209	OXIDE-MT 5.6 JA 2W
R2001	401 105 5212	MT-GLAZE 470 JA 1/16W
R2002	401 105 0415	MT-GLAZE 100 JA 1/16W
R2004	401 105 0415	MT-GLAZE 100 JA 1/16W
R2005	401 105 0415	MT-GLAZE 100 JA 1/16W
R2006	401 105 0415	MT-GLAZE 100 JA 1/16W
R201	401 105 0514	MT-GLAZE 1K JA 1/16W
R202	401 105 1511	MT-GLAZE 1.5K JA 1/16W
R2021	401 105 5212	MT-GLAZE 470 JA 1/16W
R2022	401 105 1412	MT-GLAZE 150 JA 1/16W
R2024	401 105 5212	MT-GLAZE 470 JA 1/16W
R2025	401 105 5212	MT-GLAZE 470 JA 1/16W
R2026	401 105 5212	MT-GLAZE 470 JA 1/16W
R2027	401 105 6417	MT-GLAZE 68 JA 1/16W
R2028	401 105 6417	MT-GLAZE 68 JA 1/16W
R2029	401 105 6417	MT-GLAZE 68 JA 1/16W

Ref. No.	Part No.	Description
R203	401 105 4512	MT-GLAZE 390 JA 1/16W
R204	401 105 6417	MT-GLAZE 68 JA 1/16W
R205	401 105 0514	MT-GLAZE 1K JA 1/16W
R206	401 105 2716	MT-GLAZE 220 JA 1/16W
R207	401 105 4512	MT-GLAZE 390 JA 1/16W
R208	401 105 0514	MT-GLAZE 1K JA 1/16W
R209	401 105 4611	MT-GLAZE 3.9K JA 1/16W
R210	401 105 1917	MT-GLAZE 180 JA 1/16W
R211	401 105 6417	MT-GLAZE 68 JA 1/16W
R212	401 105 0514	MT-GLAZE 1K JA 1/16W
R213	401 105 2716	MT-GLAZE 220 JA 1/16W
R214	401 105 5212	MT-GLAZE 470 JA 1/16W
R215	401 105 0514	MT-GLAZE 1K JA 1/16W
R216	401 105 1610	MT-GLAZE 15K JA 1/16W
R217	401 105 1917	MT-GLAZE 180 JA 1/16W
R218	401 105 6417	MT-GLAZE 68 JA 1/16W
R219	401 105 0514	MT-GLAZE 1K JA 1/16W
R220	401 105 2716	MT-GLAZE 220 JA 1/16W
R221	401 105 0415	MT-GLAZE 100 JA 1/16W
R222	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R223	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R231	401 105 0415	MT-GLAZE 100 JA 1/16W
R232	401 105 0415	MT-GLAZE 100 JA 1/16W
R235	401 105 4215	MT-GLAZE 33K JA 1/16W
R236	401 105 2716	MT-GLAZE 220 JA 1/16W
R237	401 105 2716	MT-GLAZE 220 JA 1/16W
R238	401 105 4710	MT-GLAZE 39K JA 1/16W
R239	401 105 0415	MT-GLAZE 100 JA 1/16W
R241	401 105 0415	MT-GLAZE 100 JA 1/16W
R242	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R243	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R245	401 105 2914	MT-GLAZE 22K JA 1/16W
R246	401 105 0415	MT-GLAZE 100 JA 1/16W
R247	401 105 0415	MT-GLAZE 100 JA 1/16W
R248	401 105 0415	MT-GLAZE 100 JA 1/16W
R249	401 105 4512	MT-GLAZE 390 JA 1/16W
R250	401 105 0613	MT-GLAZE 10K JA 1/16W
R251	401 105 0514	MT-GLAZE 1K JA 1/16W
R256	401 105 5113	MT-GLAZE 47 JA 1/16W
R257	401 105 6516	MT-GLAZE 680 JA 1/16W
R258	401 105 0712	MT-GLAZE 100K JA 1/16W
R259	401 105 1214	MT-GLAZE 120K JA 1/16W
R260	401 105 2716	MT-GLAZE 220 JA 1/16W
R261	401 105 0514	MT-GLAZE 1K JA 1/16W
R262	401 105 0613	MT-GLAZE 10K JA 1/16W
R263	401 105 5212	MT-GLAZE 470 JA 1/16W
R264	401 105 5816	MT-GLAZE 56 JA 1/16W
R265	401 105 0613	MT-GLAZE 10K JA 1/16W
R266	401 105 5816	MT-GLAZE 56 JA 1/16W
R267	401 105 2716	MT-GLAZE 220 JA 1/16W
R270	401 105 5212	MT-GLAZE 470 JA 1/16W
R271	401 105 5212	MT-GLAZE 470 JA 1/16W
R272	401 105 0613	MT-GLAZE 10K JA 1/16W
R273	401 105 2013	MT-GLAZE 1.8K JA 1/16W
R274	401 105 5816	MT-GLAZE 56 JA 1/16W
R275	401 105 4215	MT-GLAZE 33K JA 1/16W
R276	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R278	401 105 6615	MT-GLAZE ERJ 3GEYJ682V
R279	401 105 6011	MT-GLAZE 5.6K JA 1/16W
R283	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R285	401 105 4215	MT-GLAZE 33K JA 1/16W
R286	401 105 4215	MT-GLAZE 33K JA 1/16W
R3410TM	401 012 1136	CARBON 1.5 JA 1/4W 52MM
R3421	401 105 0613	MT-GLAZE 10K JA 1/16W
R3422	401 105 5915	MT-GLAZE 560 JA 1/16W
R3423	401 105 0613	MT-GLAZE 10K JA 1/16W
R3424	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R343	401 105 6615	MT-GLAZE ERJ 3GEYJ682V
R3441	401 105 2716	MT-GLAZE 220 JA 1/16W
R3442	401 105 2716	MT-GLAZE 220 JA 1/16W

Ref. No.	Part No.	Description
R3443	401 105 2716	MT-GLAZE 220 JA 1/16W
R3444	401 105 2716	MT-GLAZE 220 JA 1/16W
R3445	401 105 2716	MT-GLAZE 220 JA 1/16W
R3446	401 105 2716	MT-GLAZE 220 JA 1/16W
R345	401 105 6615	MT-GLAZE ERJ 3GEYJ682V
R3452	401 105 0613	MT-GLAZE 10K JA 1/16W
R3466	401 105 2716	MT-GLAZE 220 JA 1/16W
R3467	401 105 2716	MT-GLAZE 220 JA 1/16W
R3468	401 105 3515	MT-GLAZE 270K JA 1/16W
R3473	401 105 2716	MT-GLAZE 220 JA 1/16W
R3474	401 105 2716	MT-GLAZE 220 JA 1/16W
R3475	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R3476	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R3485	401 105 2716	MT-GLAZE 220 JA 1/16W
R3486	401 105 2716	MT-GLAZE 220 JA 1/16W
R800	401 105 3911	MT-GLAZE 33 JA 1/16W
R801	401 105 3911	MT-GLAZE 33 JA 1/16W
R802	401 105 3119	MT-GLAZE 27 JA 1/16W
R803	401 105 0613	MT-GLAZE 10K JA 1/16W
R804	401 105 0613	MT-GLAZE 10K JA 1/16W
R805	401 105 0613	MT-GLAZE 10K JA 1/16WW
R806	401 105 0613	MT-GLAZE 10K JA 1/16W
R807	401 105 0415	MT-GLAZE 100 JA 1/16W
R808	401 105 0415	MT-GLAZE 100 JA 1/16W
R809	401 105 0613	MT-GLAZE 10K JA 1/16W
R810	401 105 0613	MT-GLAZE 10K JA 1/16W
R811	401 105 0415	MT-GLAZE 100 JA 1/16W
R812	401 105 0415	MT-GLAZE 100 JA 1/16W
R813	401 202 4019	MT-GLAZE 10K FA 1/16W
R814	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R816	401 105 0712	MT-GLAZ 100K JA 1/16W
R817	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R818	401 105 5311	MT-GLAZE 4.7K JA 1/16W
R819	401 105 3911	MT-GLAZE 33 JA 1/16W
R820	401 105 0415	MT-GLAZE 100 JA 1/16W
R821	401 105 0613	MT-GLAZE 10K JA 1/16W
R822	401 105 0613	MT-GLAZE 10K JA 1/16W
R823	401 105 4710	MT-GLAZE 39K JA 1/16W
R824	401 105 0613	MT-GLAZE 10K JA 1/16W
R825	401 105 0613	MT-GLAZE 10K JA 1/16W
R826	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R827	401 105 0415	MT-GLAZE 100 JA 1/16W
R828	401 105 0415	MT-GLAZE 100 JA 1/16W
R829	401 105 0514	MT-GLAZE 1K JA 1/16W
R830	401 105 0415	MT-GLAZE 100 JA 1/16W
R831	401 105 0613	MT-GLAZE 10K JA 1/16W
R834	401 105 3911	MT-GLAZE 33 JA 1/16W
R841	401 105 0514	MT-GLAZE 1K JA 1/16W
R842	401 105 3218	MT-GLAZE 270 JA 1/16W
R843	401 105 0415	MT-GLAZE 100 JA 1/16W
R844	401 105 0415	MT-GLAZE 100 JA 1/16W
R845	401 105 0415	MT-GLAZE 100 JA 1/16W
R851	401 105 0613	MT-GLAZE 10K JA 1/16W
R852	401 105 0613	MT-GLAZE 10K JA 1/16W
R853	401 105 0613	MT-GLAZE 10K JA 1/16W
R854	401 105 0613	MT-GLAZE 10K JA 1/16W
R855	401 105 0613	MT-GLAZE 10K JA 1/16W
R856	401 105 0613	MT-GLAZE 10K JA 1/16W
R857	401 105 0415	MT-GLAZE 100 JA 1/16W
R858	401 105 0415	MT-GLAZE 100 JA 1/16W
R859	401 105 0415	MT-GLAZE 100 JA 1/16W
R860	401 105 0415	MT-GLAZE 100 JA 1/16W
R861	401 105 0415	MT-GLAZE 100 JA 1/16W
R862	401 105 0415	MT-GLAZE 100 JA 1/16W
R868	401 105 0613	MT-GLAZE 10K JA 1/16W
R869	401 105 4710	MT-GLAZE 39K JA 1/16W
R870	401 105 2914	MT-GLAZE 22K JA 1/16W
R871	401 105 0712	MT-GLAZE 100K JA 1/16W
R872	401 230 2513	MT-GLAZE 1K FA 1/16W
R874	401 105 1610	MT-GLAZE 15K JA 1/16W

Ref. No.	Part No.	Description
R875	401 105 1610	MT-GLAZE 15K JA 1/16W
R876	401 105 0613	MT-GLAZE 10K JA 1/16W
R877	401 105 0514	MT-GLAZE 1K JA 1/16W
R880	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R881	401 105 0514	MT-GLAZE 1K JA 1/16W
TRANSFORMER		
T141	610 037 4508	S COIL
MISCELLANEOUS		
A101	645 052 6947	TUNER,U/V
JN03	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JN06	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JN13	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JN15	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JN16	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JN18	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JN20	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JP101	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JP102	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JP1201	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JP1202	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JP1203	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JP1204	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JP2001	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JP2002	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JP2004	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JS112	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JS1202	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JS1203	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JS1204	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JS130	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JS258	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J001	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J005	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J008	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J009	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J101	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J102	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J104	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J113	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J117	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J121	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J125	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J134	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J135	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J136	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
KCPA	645 006 1929	HSG PLUG 7P S7B-XH-A JST
KJTAG	645 004 2935	HOUSING PLUG 7P
K1A	645 029 6055	SOCKET JDV-R35LB-10A
K1B	645 005 6574	PLUG,8P
K1C	645 014 2116	PLUG,10P 10PK-FJ
K1D	645 005 6574	PLUG,8P
K1F	645 014 2116	PLUG,10P 10PK-FJ
K1G	645 014 2093	PLUG,5P
K1P	645 008 7295	HOUSING PLUG 6P
TP-A	645 008 3396	SMK,1P W-P3001-1N PLUG
TP-C	645 008 3396	SMK,1P W-P3001-1N PLUG
TP-F	645 008 3396	SMK,1P W-P3001-1N PLUG
XL1671	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
XL1672	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
XL1673	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
XL1674	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
X101	645 063 7230	MKTGA31M9AALP00B05
X131	421 008 0906	SAW F TSB6315T
X132	421 002 2609	SAW F TSF5315
X133	645 063 1474	OSC,CRYSTAL 4MHZ
X231	645 000 5299	CSTLA12M0T55-B0
X3451	645 036 0046	OSC,CRYSTAL 27MHZ TA49
X801	645 063 6042	OSC,CRYSTAL 27MHZ

Ref. No.	Part No.	Description
Z101	610 309 5202	SHIELD CASE IF-A-C6BLL
Z102	610 309 5219	SHIELD CASE IF-B-C6BLL
Z801	610 309 5189	SHIELD CASE CPU-A-C6BLL
Z802	610 309 5196	SHIELD CASE CPU-B-C6BLL

1AA0B10E6810A ASSY,PWB,SCART C6BLL

CAPACITOR		
C1000	403 043 9136	ELECT 47U M 16V
C1003	403 113 3815	GRM188R71H102KA01D PT115
C1004	403 113 3815	GRM188R71H102KA01D PT115
C1005	403 113 3815	GRM188R71H102KA01D PT115
C1006	403 113 3815	GRM188R71H102KA01D PT115
C1010	403 149 9218	GRM188F51H103ZA01D PT115
C1011	403 157 3611	GRM1885C1H101JZ01D PT115
C1012	403 157 3611	GRM1885C1H101JZ01D PT115
C1013	403 157 3611	GRM1885C1H101JZ01D PT115
C1014	403 157 3611	GRM1885C1H101JZ01D PT115
C1015	403 157 3611	GRM1885C1H101JZ01D PT115
C1016	403 157 3611	GRM1885C1H101JZ01D PT115
C1017	403 207 0317	GRM21BF51C105ZA01L PT297
C1018	403 207 0317	GRM21BF51C105ZA01L PT297
C1023	403 113 3815	GRM188R71H102KA01D PT115
C1024	403 113 3815	GRM188R71H102KA01D PT115
C1025	403 113 3815	GRM188R71H102KA01D PT115
C1026	403 113 3815	GRM188R71H102KA01D PT115
C1030	403 149 9218	GRM188F51H103ZA01D PT115
C1031	403 157 3611	GRM1885C1H101JZ01D PT115
C1032	403 157 3611	GRM1885C1H101JZ01D PT115
C1033	403 157 3611	GRM1885C1H101JZ01D PT115
C1034	403 157 3611	GRM1885C1H101JZ01D PT115
C1035	403 157 3611	GRM1885C1H101JZ01D PT115
C1036	403 157 3611	GRM1885C1H101JZ01D PT115
C1037	403 207 0317	GRM21BF51C105ZA01L PT297
C1038	403 207 0317	GRM21BF51C105ZA01L PT297
DIODE		
D1001	407 221 7116	ZENER D. UDZS-TE-17 12B
D1002	407 221 7116	ZENER D. UDZS-TE-17 12B
D1003	407 221 7116	ZENER D. UDZS-TE-17 12B
D1004	407 221 7116	ZENER D. UDZS-TE-17 12B
D1005	407 221 7116	ZENER D. UDZS-TE-17 12B
D1006	407 221 7116	ZENER D. UDZS-TE-17 12B
D1007	407 221 7116	ZENER D. UDZS-TE-17 12B
D1008	407 221 7116	ZENER D. UDZS-TE-17 12B
D1009	407 221 7116	ZENER D. UDZS-TE-17 12B
D1011	407 221 7116	ZENER D. UDZS-TE-17 12B
D1012	407 221 7116	ZENER D. UDZS-TE-17 12B
D1014	407 221 7116	ZENER D. UDZS-TE-17 12B
D1023	407 221 7116	ZENER D. UDZS-TE-17 12B
D1024	407 221 7116	ZENER D. UDZS-TE-17 12B
D1050	407 221 7116	ZENER D. UDZS-TE-17 12B
D1051	407 221 7116	ZENER D. UDZS-TE-17 12B
D1052	407 221 7116	ZENER D. UDZS-TE-17 12B
D1053	407 221 7116	ZENER D. UDZS-TE-17 12B
D1061	407 221 7116	ZENER D. UDZS-TE-17 12B
D1062	407 221 7116	ZENER D. UDZS-TE-17 12B
D1065	407 221 7116	ZENER D. UDZS-TE-17 12B
COIL		
L1000	645 002 7420	P COIL LAL02TB100K 52MM
L1001	645 002 7420	P COIL LAL02TB100K 52MM
L1002	645 002 7420	P COIL LAL02TB100K 52MM
L1003	645 002 7420	P COIL LAL02TB100K 52MM
L1004	645 002 7420	P COIL LAL02TB100K 52MM
L1005	652 000 1718	PIPE CORE
L1011	645 002 7420	P COIL LAL02TB100K 52MM
L1012	645 002 7420	P COIL LAL02TB100K 52MM
L1013	645 002 7420	P COIL LAL02TB100K 52MM
L1014	645 002 7420	P COIL LAL02TB100K 52MM

Ref. No.	Part No.	Description
L1015	652 000 1718	PIPE CORE
TRANSISTOR		
Q1001	406 017 2400	TR BC847B,215 3000/REEL
Q1002	406 017 2400	TR BC847B,215 3000/REEL
Q1003	406 017 2400	TR BC847B,215 3000/REEL
Q1004	406 017 2400	TR BC847B,215 3000/REEL
RESISTOR		
R1001	401 105 5915	MT-GLAZE 560 JA 1/16W
R1002	401 105 5915	MT-GLAZE 560 JA 1/16W
R1003	401 105 0514	MT-GLAZE 1K JA 1/16W
R1004	401 105 0514	MT-GLAZE 1K JA 1/16W
R1005	401 105 0514	MT-GLAZE 1K JA 1/16W
R1006	401 105 0514	MT-GLAZE 1K JA 1/16W
R1007	401 105 0712	MT-GLAZE 100K JA 1/16W
R1008	401 105 0712	MT-GLAZE 100K JA 1/16W
R1009	401 105 1719	MT-GLAZE 150K JA 1/16W
R1010	401 105 1719	MT-GLAZE 150K JA 1/16W
R1011	401 105 1016	MT-GLAZE 1.2K JA 1/16W
R1012	401 105 1016	MT-GLAZE 1.2K JA 1/16W
R1013	401 113 4412	MT-GLAZE 75 JA 1/16W
R1014	401 105 0415	MT-GLAZE 100 JA 1/16W
R1015	401 113 4412	MT-GLAZE 75 JA 1/16W
R1016	401 105 0415	MT-GLAZE 100 JA 1/16W
R1017	401 113 4412	MT-GLAZE 75 JA 1/16W
R1018	401 105 0415	MT-GLAZE 100 JA 1/16W
R1019	401 113 4412	MT-GLAZE 75 JA 1/16W
R1020	401 105 0415	MT-GLAZE 100 JA 1/16W
R1021	401 022 6841	CARBON 75 JA 1/4W 52MM
R1022	401 113 4412	MT-GLAZE 75 JA 1/16W
R1023	401 105 5915	MT-GLAZE 560 JA 1/16W
R1024	401 105 5915	MT-GLAZE 560 JA 1/16W
R1025	401 105 0514	MT-GLAZE 1K JA 1/16W
R1026	401 105 0514	MT-GLAZE 1K JA 1/16W
R1027	401 105 0514	MT-GLAZE 1K JA 1/16W
R1028	401 105 0514	MT-GLAZE 1K JA 1/16W
R1029	401 105 0712	MT-GLAZE 100K JA 1/16W
R1030	401 105 0712	MT-GLAZE 100K JA 1/16W
R1031	401 105 1719	MT-GLAZE 150K JA 1/16W
R1032	401 105 1719	MT-GLAZE 150K JA 1/16W
R1033	401 105 1016	MT-GLAZE 1.2K JA 1/16W
R1034	401 105 1016	MT-GLAZE 1.2K JA 1/16W
R1036	401 022 6841	CARBON 75 JA 1/4W 52MM
R1037	401 113 4412	MT-GLAZE 75 JA 1/16W
R1050	401 113 4412	MT-GLAZE 75 JA 1/16W
R1051	401 105 6417	MT-GLAZE 68 JA 1/16W
R1052	401 113 4412	MT-GLAZE 75 JA 1/16W
R1053	401 105 6417	MT-GLAZE 68 JA 1/16W
R1054	401 113 4412	MT-GLAZE 75 JA 1/16W
R1055	401 105 6417	MT-GLAZE 68 JA 1/16W
R1056	401 113 4412	MT-GLAZE 75 JA 1/16W
R1057	401 105 0415	MT-GLAZE 100 JA 1/16W
R1061	401 105 4710	MT-GLAZE 39K JA 1/16W
R1062	401 026 7438	CARBON 39K JA 1/6W 52MM
R1065TM	401 024 7034	CARBON 1K JA 1/6W 52MM
MISCELLANEOUS		
JW1023	610 310 2535	NONSTANDARD WIRE ASSY
J1001	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
J1021	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
K10A	645 018 9494	PLUG JDV-PS35LB-10-1
K1001	645 025 1047	SOCKET,RGB 21P
K1002	645 025 1047	SOCKET,RGB 21P

1AA0B10E6810B ASSY,PWB,CRT C6BLL

CAPACITOR		
C741	403 247 2101	CERAMIC 2200P K 2K
C742	403 281 9302	ELECT 10U M 250V
C745	403 159 7409	MT-POLYEST 0.1U K 250V
DIODE		
D702	407 006 3913	DIODE ERB43-04-V1 52MM
D703	407 006 3913	DIODE ERB43-04-V1 52MM
D704	407 006 3913	DIODE ERB43-04-V1 52MM
D705	407 006 3913	DIODE ERB43-04-V1 52MM
D712	407 006 3913	DIODE ERB43-04-V1 52MM
D713	407 224 6512	ZD UDZS4.7B-TE-17
D714	407 224 6512	ZD UDZS4.7B-TE-17
D715	407 224 6512	ZD UDZS4.7B-TE-17
D722	407 006 3913	DIODE ERB43-04-V1 52MM
INTEGRATED CIRCUIT		
IC701	409 476 5104	TDA6108JF/N1 036-05149/05
IC701A	610 307 5310	HEAT SINK RGB-C6BL
COIL		
L731A	652 000 1817	PIPE CORE BF2030RTM TAPED
RESISTOR		
R701	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R702	401 105 1412	MT-GLAZE 150 JA 1/16W
R704	401 024 6730	CARBON 100 JA 1/6W 52MM
R705	401 007 1134	CARBON 1K JA 1/2W
R711	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R712	401 105 1412	MT-GLAZE 150 JA 1/16W
R714	401 024 6730	CARBON 100 JA 1/6W 52MM
R715	401 007 1134	CARBON 1K JA 1/2W
R721	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R722	401 105 1412	MT-GLAZE 150 JA 1/16W
R724	401 024 6730	CARBON 100 JA 1/6W 52MM
R725	401 007 1134	CARBON 1K JA 1/2W
R731	401 105 0514	MT-GLAZE 1K JA 1/16W
R732	401 105 8213	MT-GLAZE ERJ 3GEYJ683V
MISCELLANEOUS		
JS701	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JS711	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
JS721	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
K7A	645 008 7295	HOUSING PLUG 6P
K7C	645 008 7264	HOUSING PLUG 3P
K7D	645 008 7271	HOUSING PLUG 4P
K7V	645 008 4058	TERMINAL PLUG
K7Y	645 008 4058	TERMINAL PLUG
⚠ K701	645 026 2005	HPS1521-015103 CRT.SKT

1AA0B10E673BA ASSY,PWB,EMC SCREEN PWB

MISCELLANEOUS		
K16Y	645 004 2881	PLUG,2P
S1600	610 252 1108	H HEAT SINK E7LC

1AA0B10E673B0 ASSY,PWB,POWER/DEF HB3B

CAPACITOR		
C001	403 314 5915	GRM21BR71C474KA01L PT297
C002	403 215 2310	GRM188R71H123KA01D PT115
C003	403 314 5915	GRM21BR71C474KA01L PT297
C004	403 215 2310	GRM188R71H123KA01D PT115
C005	403 046 3517	ELECT 33U M 25V
C006	403 046 3517	ELECT 33U M 25V
C007	403 164 0214	GRM188F51E104ZA01D PT115
C008	403 164 0214	GRM188F51E104ZA01D PT115
C009	403 164 0214	GRM188F51E104ZA01D PT115
C010	403 164 0214	GRM188F51E104ZA01D PT115
C011	403 045 1504	ELECT 1000U M 25V
C012	403 045 1504	ELECT 1000U M 25V
C015	403 047 3100	ELECT 47U M 25V

Ref. No.	Part No.	Description
C021	403 154 1917	ELECT 1000U M 35V
C030	403 113 3815	GRM188R71H102KA01D PT115
C1102	403 157 3611	GRM1885C1H101JZ01D PT115
C1106	403 157 3611	GRM1885C1H101JZ01D PT115
C1107	403 157 3611	GRM1885C1H101JZ01D PT115
C1108	403 049 4224	ELECT 10U M 50V
C1109	403 049 4224	ELECT 10U M 50V
C1121	403 149 9218	GRM188F51H103ZA01D PT115
C1122	403 149 9218	GRM188F51H103ZA01D PT115
C1123	403 085 7306	NP-ELECT 10U M 25V
C1124	403 149 9218	GRM188F51H103ZA01D PT115
C1125	403 149 9218	GRM188F51H103ZA01D PT115
C1126	403 085 7306	NP-ELECT 10U M 25V
C1601	403 279 4807	CERAMIC 100P K 2K
C1602	403 073 6413	CERAMIC 470P K 50V
C1603	403 051 0627	ELECT 4.7U M 50V
C1605	403 168 8701	MT-POLYEST 0.022U K 400V
⚠ C1606	404 073 5106	DE1B3KX471KB5BC05 250V
C1607	403 075 9719	CERAMI 1800P K 500V
C1611	403 204 6500	ELECT 2200U M 16V
C1612	403 042 4875	ELECT 1000U M 16V
C1613	403 073 8318	CERAMIC 4700P K 50V
C1614	403 042 4875	ELECT 1000U M 16V
C1615	403 041 4529	ELECT 470U M 10V
C1631	403 194 3909	ELECT 2200U M 10V
C1632	403 194 3909	ELECT 2200U M 10V
C1901	403 194 4609	ELECT 470U M 16V
C1902	403 149 9218	GRM188F51H103ZA01D PT115
C1953	403 164 0214	GRM188F51E104ZA01D PT115
C3523	403 157 6216	GRM188R71H221KD01D PT115
C3524	403 157 6216	GRM188R71H221KD01D PT115
C401	403 048 6328	ELECT 0.47U M 50V
C402	403 050 4408	ELECT 220U M 50V
C404	403 076 0517	CERAMIC 2200P K 500V
C405	403 334 4209	ELECT 2200U M 16V
C411	403 343 7812	MT-POLYPRO 4200P H 1.5K
C412	403 348 5615	MT-POLYPRO 4000P H 1.5K
C415	403 165 7638	DEHR33F221KP3A P335
C416	403 076 0517	CERAMIC 2200P K 500V
C418	403 185 8807	MT-POLYEST 1U K 250V
C422	403 358 7220	ECWF2154N583 MT-POLY PANA
C423	403 358 7220	ECWF2154N583 MT-POLY PANA
C431	403 106 4604	ELECT 33U M 250V
C432	403 049 4224	ELECT 10U M 50V
C436	403 049 4224	ELECT 10U M 50V
C438	403 067 7895	MT-COMP 0 0.47 J 50V
C443	403 051 0627	ELECT 4.7U M 50V
C454	403 209 4709	ELECT 22U M 50V
C455	403 237 8057	MT-COMPO 0.1U J 50V
C458	403 178 9517	POLYESTER 0.018U J 50V
C459	403 134 0916	CERAMIC 0.082U K 50V
C460	403 215 2419	GRM188R71H153KA01D PT115
C460A	403 155 2210	GRM188R71H332KA01D PT115
C461	403 354 9119	ECWH12103VU6 PANA
C462	403 355 3017	MT-POLYPRO 8200P J 1K
C464	403 188 0808	MT-POLYEST 2.2U J 100V
C465	403 188 0808	MT-POLYEST 2.2U J 100V
C505	403 190 4702	ELECT 1000U M 25V
C508	403 067 7895	MT-COMP 0 0.47 J 50V
C509	403 179 2319	POLYESTER 2700P K 50V
C511	403 113 4119	GRM188R71H222KA01D PT115
C511A	403 113 4119	GRM188R71H222KA01D PT115
C512	403 113 4119	GRM188R71H222KA01D PT115
C512A	403 113 4119	GRM188R71H222KA01D PT115
C513	403 050 4408	ELECT 220U M 50V
C515	403 190 4702	ELECT 1000U M 25V
C516	403 069 8315	CERAMIC 0.01U Z 50V
C517	403 036 6610	CERAMIC 8P D 500V
C574	403 049 4224	ELECT 10U M 50V
⚠ C601	CGXAA2E224BCN	MT-POLYEST 0.2U M 250V
⚠ C603	404 056 1408	MT-POLYEST 0.1U M 250V
C605	403 076 6727	DEBB33A102KP3A P335
C606	403 076 6727	DEBB33A102KP3A P335
C609	404 044 5005	ELECT 220U M 400V
C611	403 215 2211	GRM188R71H103KA01D PT115
C613	403 209 4709	ELECT 22U M 50V
C614	403 237 7941	MT-COMPO 0.22U J 50V
C615	403 324 3304	CERAMIC 220P K 2K
C616	403 324 3304	CERAMIC 220P K 2K
C617	403 324 3304	CERAMIC 220P K 2K
C618	403 149 5101	MT-POLYEST 0.047U K 630V
C619	403 075 9719	CERAMIC 1800P K 500V
⚠ C628	404 073 3706	DE1E3KX101MB5BC05
⚠ C629	404 073 3904	DE1B3KX102MB5BC05
C632	403 077 2015	CERAMIC 1000P K 2K
C637	403 165 6126	DEHR33A471KP3A P335
C638	403 069 0517	CERAMIC 1000P K 50V
C641	403 190 4702	ELECT 1000U M 25V
C642	404 083 9507	ELECT 200MXR330MZ35 105C
C643	403 211 8801	ELECT 50 YXA470M K1020
C644	403 190 4702	ELECT 1000U M 25V
C646	403 313 6101	ELECT 2200U M 16V
C647	403 211 7309	ELECT 105C 3300U M 35V
C649	403 155 2210	GRM188R71H332KA01D PT115
C661	403 049 4224	ELECT 10U M 50V
C662	403 069 8315	CERAMIC 0.01U Z 50V
DIODE		
D1601	407 007 7316	DIODE EU01Z
D1602	407 007 7118	DIODE EU01A
⚠ D1603	407 173 2907	PHOTO COUPLE PC123F2
D1611	407 009 8816	DIODE RU3AM
⚠ D1612	407 129 6706	DIODE RU4YX LF-L1
D1631	407 005 9837	DIODE ERA81-004V1 52MM
D1951	407 116 6504	LED SLP-181B-51
D1951A	610 222 0322	LED HOLDER-G2CA-A
D411	407 142 5908	DIODE FMP-G3FS
D411A	610 288 3299	HEAT SINK-A-C2LA
⚠ D412	407 093 0700	DIODE RS4FSLF-K2
D421	407 099 6627	Z.DIODE MTZJ-T72-12B
D431	407 149 0817	DIODE 1SS355-TE-17
D432	407 005 9629	DIODE ERA22-04-V1 52MM
D433	407 149 0817	DIODE 1SS355-TE-17
D434	407 063 9524	ZEN DIODE 52MM TAPE
D435	407 149 0817	DIODE 1SS355-TE-17
D436	407 005 9629	DIODE ERA22-04-V1 52MM
D437	407 149 0817	DIODE 1SS355-TE-17
D441	407 011 4427	DIODE TVR1G
D453	407 012 4426	DIODE 1SS133-T-72
D454	407 012 4426	DIODE 1SS133-T-72
D455	407 099 6122	Z.DIODE MTZJ-T72-10B
D457	408 007 8607	DIODE 1N4148
D458	407 054 9615	ZENER RD2.0EB2 52MM
D461	407 120 3704	DIODE FMU-16S LF-F
D461A	610 269 6752	HEAT SINK (HKG) F3V
D461P	645 008 4058	TERMINAL PLUG
D504	407 100 0224	ZENER DIODE MTZJ-T72-36A
D511	407 005 7328	DIODE EM01Z
D571	407 149 0817	DIODE 1SS355-TE-17
D572	408 007 8607	DIODE 1N4148
D575	407 099 5729	Z.DIODE MTZJ-T72-6.8C
D605	407 006 6310	DIODE ERC05-10B
D606	407 006 6310	DIODE ERC05-10B
D607	407 006 6310	DIODE ERC05-10B
D608	407 006 6310	DIODE ERC05-10B
⚠ D610	407 173 2907	PHOTO COUPLE PC123F2
D611	407 146 8113	DIODE EG01C
D612	407 005 9837	DIODE ERA81-004V1 52MM
D614	407 124 6414	DIODE ERA18-04 V1 52MM
D615	407 149 0817	DIODE 1SS355-TE-17

Ref. No.	Part No.	Description
D616	407 099 7921	Z DIODE MTZJ20B 52MM
D617	407 149 0817	DIODE 1SS355-TE-17
D619	407 063 9227	ZENER DIODE MTZJ7.5B 52MM
D631	407 009 8816	DIODE RU3AM
⚠ D632	407 129 7000	DIODE RU4AM LF-L1
D633	407 006 4019	DIODE ERB44-02
D634	407 009 8816	DIODE RU3AM
⚠ D636	407 129 6706	DIODE RU4YX LF-L1
⚠ D637	407 166 2303	DIODE ERC-91-02L
D638	408 007 8607	DIODE 1N4148
D639	407 099 7624	ZENER DIODE MTZJ-T72-18B
D645	408 007 8607	DIODE 1N4148
D649	408 007 8607	DIODE 1N4148
D652	407 149 0817	DIODE 1SS355-TE-17
D654	407 149 0817	DIODE 1SS355-TE-17
D661	407 100 0333	Z DIODE MTZJ36B 52MM
INTEGRATED CIRCUIT		
IC001	409 301 4906	IC TDA7263M
IC001H	610 251 4186	AUDIO HEATSINK ASSY E7PC
IC1601	409 543 4108	IC STR-A6351
IC1611	409 308 8600	IC SE005N
IC1612	409 440 3303	IC BA09T
IC1613	409 416 7908	IC BA05T
IC501	409 374 0607	IC LA7846N
IC501A	610 309 3345	HEAT SINK- V C5WEL
IC631	409 169 5800	IC SE140NL
COIL		
L1101	645 002 7420	P COIL LAL02TB100K 52MM
L1106	645 002 7420	P COIL LAL02TB100K 52MM
L1121	645 007 9566	LAL03TB120K P/COIL 52MM
L1122	645 007 9566	LAL03TB120K P/COIL 52MM
L1123	645 033 2722	BEAD CORE TAIYO YUDEN 52M
L1601	610 078 4635	PIPECORE
L1611	610 078 5946	PIPE CORE
L1612	610 078 5946	PIPE CORE
L411	610 078 4635	PIPECORE
L412	610 078 4635	PIPECORE
⚠ L422	645 058 6477	COIL,LINEARITY
L451	645 044 8133	7212N-681K(150UH)
⚠ L461	645 016 9137	S-150-044-A 330U SUMIDA
⚠ L462	645 016 9137	S-150-044-A 330U SUMIDA
L503	645 008 5635	INDUCTOR,12U K
L601	652 000 1817	PIPE CORE BF2030RTM TAPED
L602	652 000 1817	PIPE CORE BF2030RTM TAPED
⚠ L603	645 061 3333	LINE FILTER
⚠ L604	645 061 3333	LINE FILTER
⚠ L605	645 042 2829	CHOKE, ETQR45T007B PANA
L611	610 078 5946	PIPE CORE
L612	610 078 5946	PIPE CORE
L613	610 078 5946	PIPE CORE
L614	610 078 5946	PIPE CORE
L615	610 078 5946	PIPE CORE
L616	645 005 0763	CORE,PIPE
L634	610 078 5946	PIPE CORE
L636	610 078 5946	PIPE CORE
L637	610 078 5946	PIPE CORE
TRANSISTOR		
Q001	406 017 2400	TR BC847B,215 3000/REEL
Q1611	405 008 4805	TR 2SB764-E
Q1612	406 007 2007	TR JC546B
Q1911	406 017 2400	TR BC847B,215 3000/REEL
Q401	406 007 2007	TR JC546B
Q402	405 136 0205	TR 2SC5291S-AY
Q411	406 017 4503	TR 2SC5857(LBSAN)
Q411A	610 298 8437	HEAT SINK-POW/HOR C5WEL
Q436	406 017 2400	TR BC847B,215 3000/REEL
Q451	405 039 3303	TR 2SC3114-R

Ref. No.	Part No.	Description
Q452	405 052 8002	TR 2SB1274-R
Q452A	610 309 3338	HEAT SINK-PCC C6BLL
Q601	405 016 9403	TR 2SC3068
Q611	405 013 6801	TR 2SC2274-E
Q612	405 006 6514	TR 2SA984-E-AA
Q613	405 172 6803	TR 2SK3102
Q613A	610 298 8437	HEAT SINK-POW/HOR C5WEL
Q625	405 016 9403	TR 2SC3068
Q631	406 007 2007	TR JC546B
Q641	406 017 2400	TR BC847B,215 3000/REEL
Q642	406 007 2007	TR JC546B
RESISTOR		
R001	401 105 0514	MT-GLAZE 1K JA 1/16W
R002	401 105 2013	MT-GLAZE 1.8K JA 1/16W
R003	401 105 0514	MT-GLAZE 1K JA 1/16W
R004	401 105 2013	MT-GLAZE 1.8K JA 1/16W
R005	401 026 9333	CARBON 47 JA 1/6W 52MM
R006	401 025 1635	CARBON 1K5 JA 1/6W 52MM
R007	401 026 9333	CARBON 47 JA 1/6W 52MM
R008	401 025 1635	CARBON 1K5 JA 1/6W 52MM
R009	401 026 8138	CARBON 4.7 JA 1/6W 52MM
R010	401 026 8138	CARBON 4.7 JA 1/6W 52MM
R013	401 105 1016	MT-GLAZE 1.2K JA 1/16W
R014	401 022 1945	CARBON 680 JA 1/4W 52MM
R015	401 105 2716	MT-GLAZE 220 JA 1/16W
R016	401 022 1945	CARBON 680 JA 1/4W 52MM
R018	401 105 0613	MT-GLAZE 10K JA 1/16W
R022	401 105 5410	MT-GLAZE 47K JA 1/16W
R1101	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R1102	401 105 0712	MT-GLAZE 100K JA 1/16W
R1106	401 105 2815	MT-GLAZE 2.2K JA 1/16W
R1107	401 105 0712	MT-GLAZE 100K JA 1/16W
R1121	401 007 7641	CARBON 150 JA 1/2W
R1122	401 007 7641	CARBON 150 JA 1/2W
R1601	401 010 4812	CARBON 470K JA 1/2W
R1602	401 018 3867	CARBON 3K3 JA 1/4W 52MM
R1603	401 014 1639	CARBON 15 JA 1/4W 52MM
⚠ R1604	402 001 8106	FUSIBLE RES 680 J- 1/4W
R1605	401 024 6027	CARBON 1R5 JA 1/6W 52MM
⚠ R1607	401 068 5509	OXIDE-MT 47 K JA 2W
R1611	401 026 3935	CARBON 330 JA 1/6W 52MM
R1612	401 024 7034	CARBON 1K JA 1/6W 52MM
R1613	401 025 3837	CARBON 180 JA 1/6W 52MM
R1614	401 012 7059	CARBON 10K JA 1/4W 52MM
R1615	401 009 9346	CARBON 390 JA 1/2W
R1616	401 024 7440	CARBON 10K JA 1/6W 52MM
R1901	401 105 0415	MT-GLAZE 100 JA 1/16W
R1950	401 026 6639	CARBON 390 JA 1/6W 52MM
R1951	401 105 3317	MT-GLAZE 2.7K JA 1/16W
R1952	401 105 5410	MT-GLAZE 47K JA 1/16W
R1953	401 260 4716	MT-GLAZE 1.5K FA 1/16W
R1954	401 257 7010	MT-GLAZE 820 FA 1/16W
R1955	401 218 4614	MT-GLAZE 5.6K FA 1/16W
R1956	401 203 9815	MT-GLAZE 2.7K FA 1/16W
R401	401 105 0514	MT-GLAZE 1K JA 1/16W
R402	401 026 6639	CARBON 390 JA 1/6W 52MM
R403	401 105 1412	MT-GLAZE 150 JA 1/16W
R405	401 105 0514	MT-GLAZE 1K JA 1/16W
⚠ R406	401 062 7103	OXIDE-MT 5.6K JA 1W
⚠ R408	401 065 2808	OXIDE-MT 120 JA 2W
⚠ R409	401 059 1602	OXIDE-MT 15 JA 1W
⚠ R409A	401 058 7209	OXIDE-MT 12 JA 1W
⚠ R410	401 062 0302	OXIDE-MT 47 JA 1W
⚠ R411	401 007 4818	CARBON 1.2K JA 1/2W
⚠ R425	401 058 3706	OXIDE-MT 1K JA 1W
⚠ R431	402 022 2008	FUSIBLE RES 1 J- 1/2W
R432	401 017 3848	CARBON 270K JA 1/4W 52MM
R433	401 027 8632	CARBON 8K2 JA 1/6W 52MM
⚠ R434	401 067 3100	OXIDE-MT 3.9 JA 2W

Ref. No.	Part No.	Description
⚠ R435	402 022 2008	FUSIBLE RES 1 J- 1/2W
R436	401 105 5311	MT-GLAZE 4.7K JA 1/16W
⚠ R437	401 066 3705	OXIDE-MT 2.7 JA 2W
R438	401 020 2954	CARBON 47K JA 1/4W 52MM
R439	401 018 4943	CARBON 33K JA 1/4W 52MM
R440	401 023 2852	CARBON 8K2 JA 1/4W 52MM
⚠ R441	402 072 1204	WIRE WOUND 1.8 KA 7W
R442	401 024 7440	CARBON 10K JA 1/6W 52MM
R443	401 024 7034	CARBON 1K JA 1/6W 52MM
R444	401 024 7440	CARBON 10K JA 1/6W 52MM
R446	401 105 4215	MT-GLAZE 33K JA 1/16W
R447	401 105 7513	MT-GLAZE 82K JA 1/16W
R453	401 041 4129	MT-FILM100K FA 1/4W 52MM
R454	401 053 4025	MT-FILM 560 FA 1/6W 52MM
R456	401 053 4728	MT-FILM 6K8 FA 1/6W 52MM
R457	401 027 5235	CARBON 680 JA 1/6W 52MM
R458	401 024 7737	CARBON 100K JA 1/6W 52MM
⚠ R459	402 058 9507	FUSIBLE RES 2.7 J- 1W
R460	401 023 1756	CARBON 820 JA 1/4W 52MM
R461	401 105 1115	MT-GLAZE 12K JA 1/16W
R471	401 053 1222	MT-FILM 2.2K FA 1/6W
⚠ R503	402 059 3801	FUSIBLE RES 3.3 J- 2W
⚠ R504	402 061 0201	FUSIBLE RES 1.5 J- 1/2W
⚠ R506	401 062 6106	OXIDE-MT 560 JA 1W
R507	401 014 1639	CARBON 15 JA 1/4W 52MM
⚠ R508	401 180 8402	OXIDE-MT 0.47 JA 2W
R509	401 083 8321	MT-FILM 1.2K FA 1/6W 52MM
⚠ R510	402 041 5202	FUSIBLE RES 2.2 J- 2W
R511	401 105 0514	MT-GLAZE 1K JA 1/16W
R512	401 105 7919	MT-GLAZE 0.000 ZA 1/16W
R513	401 083 8321	MT-FILM 1.2K FA 1/6W 52MM
R571	401 105 6615	MT-GLAZE ERJ 3GEYJ682V
R572	401 105 5410	MT-GLAZE 47K JA 1/16W
R601	401 026 4338	CARBON 3K3 JA 1/6W 52MM
R602	401 105 8114	MT-GLAZE 56K JA 1/16W
⚠ R603	402 072 1204	WIRE WOUND 1.8 KA 7W
R604	401 008 8627	CARBON 220K JA 1/2W
R611	401 020 0851	CARBON 470 JA 1/4W 52MM
R612	401 105 0712	MT-GLAZE 100K JA 1/16W
⚠ R613	402 001 6607	FUSIBLE RES 1.2K J- 1/4W
R614	401 105 2914	MT-GLAZE 22K JA 1/16W
R615	401 016 2654	CARBON 220 JA 1/4W 52MM
R616	401 105 0613	MT-GLAZE 10K JA 1/16W
⚠ R618	401 064 1406	OXIDE-MT .33 JA 2W
R619	401 016 1548	CARBON 22 JA 1/4W 52MM
R620	401 010 4812	CARBON 470K JA 1/2W
R621	401 010 4812	CARBON 470K JA 1/2W
R622	401 019 9650	CARBON 47 JA 1/4W 52MM
R623	401 105 4314	MT-GLAZE 330K JA 1/16W
⚠ R624	402 001 8502	FUSIBLE RES 10 J- 1/2W
⚠ R625	401 069 4501	OXIDE-MT 68K JA 2W
⚠ R626	401 069 4501	OXIDE-MT 68K JA 2W
R627	401 105 2914	MT-GLAZE 22K JA 1/16W
⚠ R628	402 088 1106	RESISTER 5.6M JA 1/2W
⚠ R629	402 088 1106	RESISTER 5.6M JA 1/2W
R631	401 105 4710	MT-GLAZE 39K JA 1/16W
R634	401 024 7440	CARBON 10K JA 1/6W 52MM
R635	401 024 9731	CARBON 12K JA 1/6W 52MM
R636	401 026 9937	CARBON 4K7 JA 1/6W 52MM
R637	401 024 7440	CARBON 10K JA 1/6W 52MM
R641	401 011 2718	CARBON 68K JA 1/2W
R642	401 025 8238	CARBON 22K JA 1/6W 52MM
R643	401 026 9630	CARBON 470 JA 1/6W 52MM
R644	401 105 0613	MT-GLAZE 10K JA 1/16W
R645	401 105 0613	MT-GLAZE 10K JA 1/16W
R646	401 105 0613	MT-GLAZE 10K JA 1/16W
R651	401 027 8632	CARBON 8K2 JA 1/6W 52MM
R652	401 025 8238	CARBON 22K JA 1/6W 52MM
⚠ R655	401 064 4506	OXIDE-MT 1.2 JA 2W
⚠ R656	402 069 8704	WIRE WOUND 8.2 KA 7W
⚠ R657	402 069 9800	WIRE WOUND 2.7 KA 5W
⚠ R662	401 061 4400	OXIDE-MT 33K JA 1W

TRANSFORMER

⚠ T1601	645 061 4316	TRANS,POWER,PULSE
⚠ T401	645 041 1083	TRANS,DRIVE
⚠ T402	645 060 4652	TRANS,FLYBACK
⚠ T611	645 059 0979	TRANS,POWER,PULSE

VARIABLE RESISTOR

VA601	407 130 2902	VARISTOR

MISCELLANEOUS

⚠ A1901	645 028 1044	REMO REC SPS-443-1-E
⚠ F601	423 022 2102	FUSE 250V 4.0A
F601A	645 000 5077	HOLDER,FUSE
F601B	645 000 5077	HOLDER,FUSE
KB	645 005 8622	SOCKET,8P
KC	645 008 5543	SOCKET,10P
KD	645 005 8622	SOCKET,8P
⚠ KEP1	645 008 4058	TERMINAL PLUG
⚠ KEP2	645 008 4058	TERMINAL PLUG
KF	645 008 5543	SOCKET,10P
KG	645 008 5512	SOCKET,5P
KSC	645 008 4058	TERMINAL PLUG
K11L	645 004 2881	PLUG,2P
K11RP1	645 008 4058	TERMINAL PLUG
K11RP2	645 008 4058	TERMINAL PLUG
K1101	645 002 0568	TERMINAL,BOARD
K1121	645 027 8761	PHONE JACK HTJ-035-10ABT
⚠ K4A	645 010 9683	PLUG, 2P B2B-VT JST
K4B	645 008 7264	HOUSING PLUG 3P
K4C	645 008 7264	HOUSING PLUG 3P
K4D	645 008 7271	HOUSING PLUG 4P
K4Y	645 004 2881	PLUG,2P
⚠ K6AP1	645 008 4058	TERMINAL PLUG
⚠ K6AP2	645 008 4058	TERMINAL PLUG
⚠ PS601	408 046 4301	PTDAA1BF4R5Q200 MURATA
⚠ RL601	645 028 2713	RELAY
SW1951	610 011 2698	SWITCH,PUSH
SW1952	610 011 2698	SWITCH,PUSH
SW1953	610 011 2698	SWITCH,PUSH
SW1954	610 011 2698	SWITCH,PUSH
⚠ SW601	645 050 4129	SW,PUSH POWER SDKVA30100

All information in this manual is correct at the start of production. Sanyo reserves the right to modify components and procedures in order to comply with their continuous improvement policy.

TO FRONT

TO POWIDEF

K1G J10EF050N

FRONT V-IN

FRONT R-IN

FRONT L-IN

K1F J10EF100N

IC803
QXXAVC092M
<128MB-SDRAM>

IC802
M29W160ET7NM
<M29W160DT
16M FLASH>

IC801
QXXAVC178M
<STV3500>

IC804
M24C64WM

<AV SW1>
<AV SW2>
<FRONT/SCART_3 SW>

RC3V3
RC5V
RC1V8
RC1V8A
RC3V3A

PB_B
PR_R
Y_G
V100
H100

AV_LINK_IN

KJTAG
J10EA070N

RESET OUT

AUDIO_MUTE

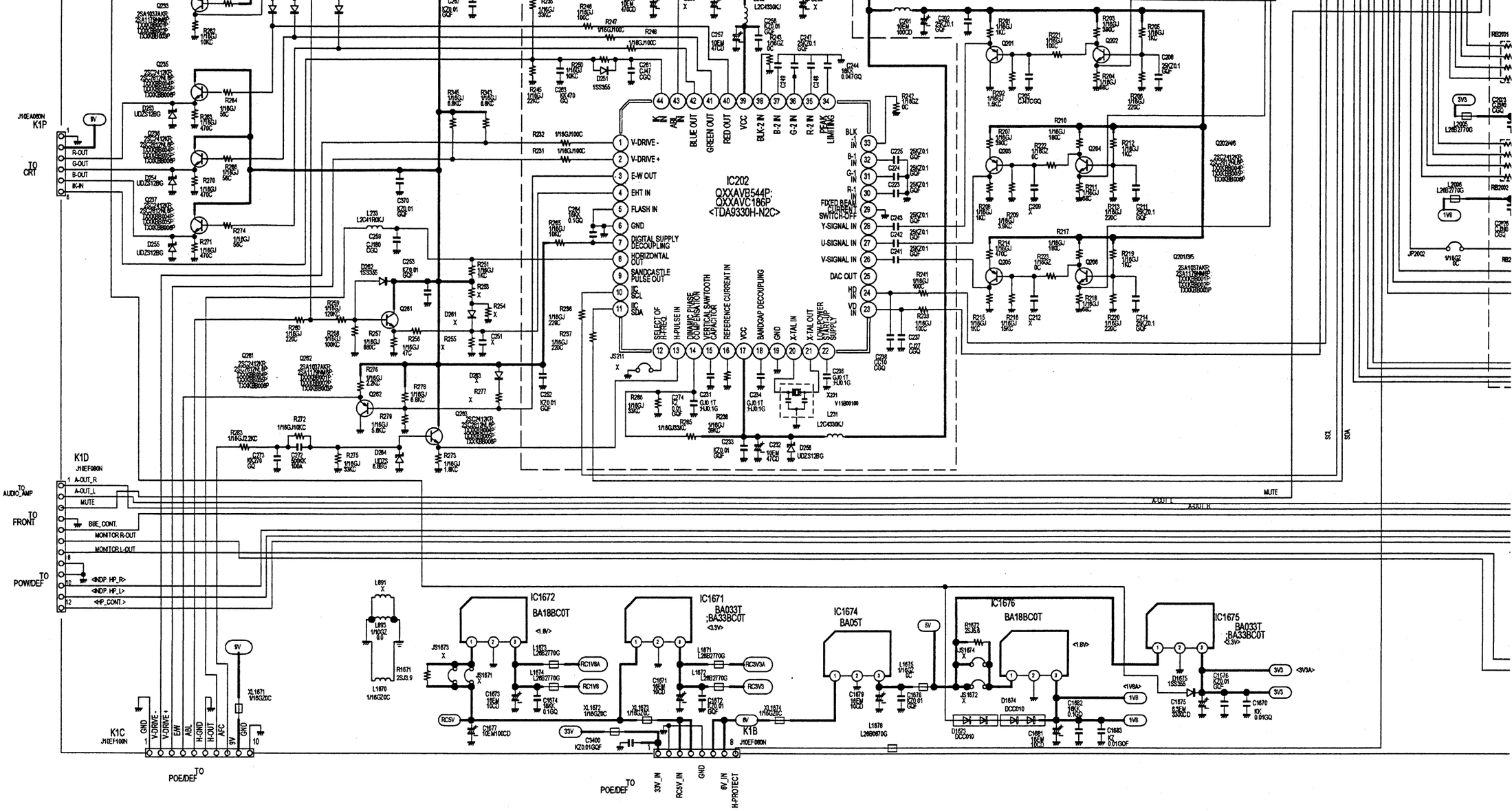
IC801
QXXAVC178M
<STV3500>

IC802
M29W160ET7NM
<M29W160DT
16M FLASH>

IC804
M24C64WM

IC202
QXXAVB544P;
QXXAVC186P
<TDA9330H-N2C>

K1P
K1D
J10EA080N
J10EF080N


IC202
QXXAVB544P:
QXXAVC186P
<TDA9330H-N2C>
V-DRIVE -
V-DRIVE +
E-W OUT
EHT IN
FLASH IN
GND
DIGITAL SUPPLY DECOUPLING
HORIZONTAL OUT
SANDCASTLE PULSE OUT
I2C SCL
I2C SDA
BLUE OUT
GREEN OUT
RED OUT
VCC
BLK-2 IN
B-2 IN
G-2 IN
R-2 IN
PEAK LIMITING
BLK IN
B-1 IN
G-1 IN
R-1 IN
FIXED BEAM CURRENT SWITCH-OFF
Y-SIGNAL IN
U-SIGNAL IN
V-SIGNAL IN
DAC OUT
HD IN
VD IN
SELECT OF H-FREQ.
H-PULSE IN
DYNAMIC PHASE COMPENSATION
VERTICAL SAWTOOTH CAPACITOR
REFERENCE CURRENT IN
VCC
BANDGAP DECOUPLING
GND
X-TAL IN
X-TAL OUT
STABILIZED POWER SUPPLY
K1P
J10EA080N
R-OUT
G-OUT
B-OUT
BK-IN
TO CRT
K1D
J10EF080N
A-OUT_R
A-OUT_L
MUTE
TO AUDIO_AMP
TO FRONT
BBE_CONT.
MONITOR R-OUT
MONITOR L-OUT
HP_R
HP_L
HP_CONT.
TO POW/DEF
K1C
J10EF100N
GND
V-DRIVE-
V-DRIVE+
E/W
ABL
H-GND
H-OUT
AFC
9V
GND
TO POE/DEF
K1B
J10EF080N
33V_IN
RC5V_IN
GND
6V_IN
H-PROTECT
TO POE/DEF
IC1672
BA18BC0T
IC1671
BA033T
;BA33BC0T
IC1674
BA05T
IC1676
BA18BC0T
IC1675
BA033T
;BA33BC0T
9V
5V
3V3
1V8
33V
6V
RC1V8A
RC1V8
RC5V3A
RC3V3
RC5V
L891
L893
L1670
L1671
L1672
L1673
L1674
L1675
L1676
L1678
L2001
L2002
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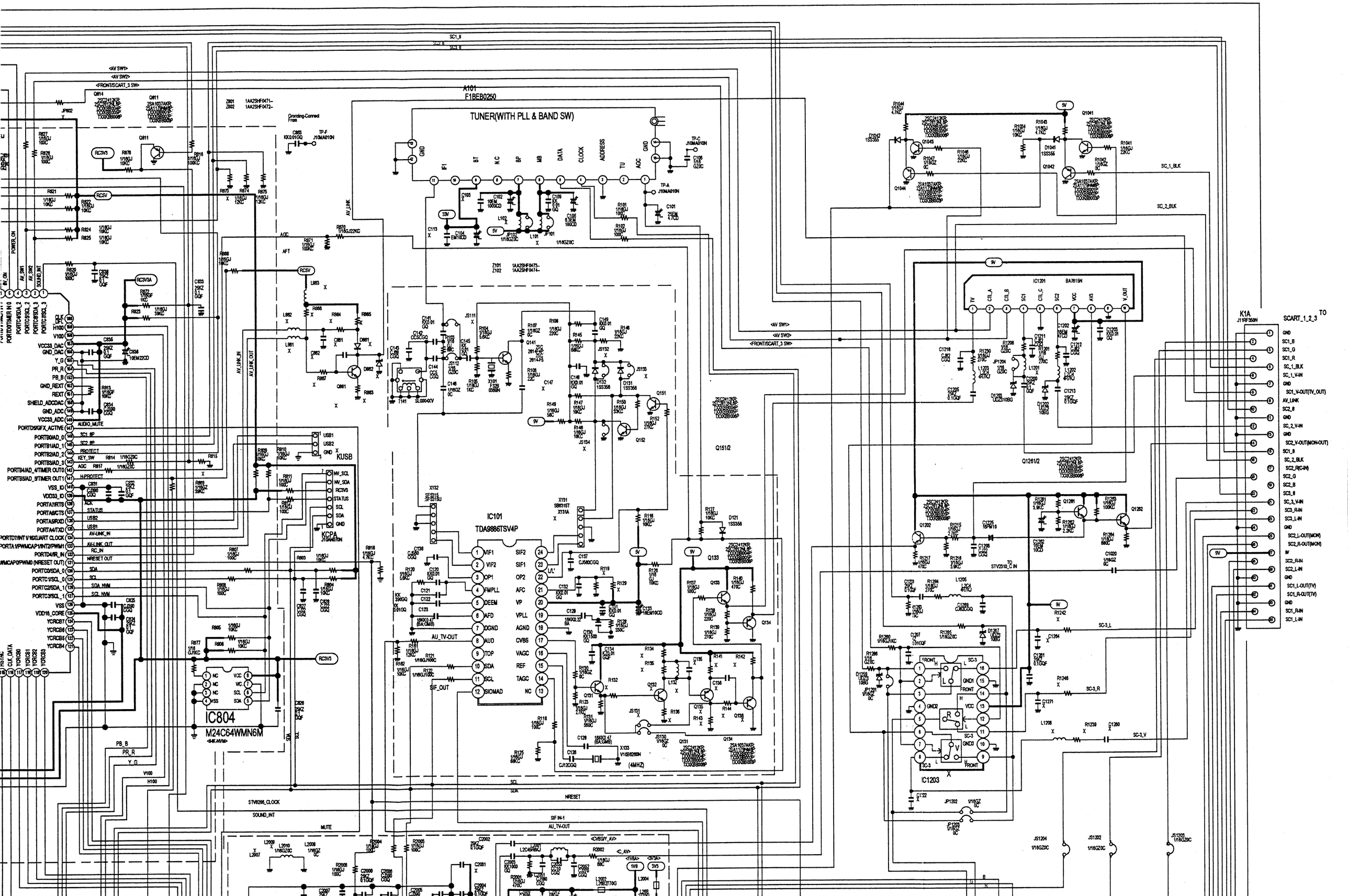
L2040


A101
F1BEB0250
TUNER(WITH PLL & BAND SW)
IC101
TDA9886TSV4P
IC804
M24C64WMN6M
IC1201
BA7619N
IC1203
K1A
SCART_1_2_3
TO
KUSB
KCPA
<AV SW1>
<AV SW2>
<FRONT/SCART_3 SW>
Grounding-Connect From
AV_LINK
AGC
AFT
AU_TV-OUT
SIF_OUT
SCL
SDA
NRESET
STV6206_CLOCK
SOUND_INT
MUTE
SIF IN-1
AUDIO_MUTE
SC1_B
SC1_G
SC1_R
SC_1_BLK
SC_1_V-IN
SC1_V-OUT(TV_OUT)
AV_LINK
SC2_B
SC_2_V-IN
SC2_V-OUT(MON-OUT)
SC_2_BLK
SC2_R(C-IN)
SC2_G
SC2_B
SC_3_V-IN
SC3_R-IN
SC3_L-IN
SC2_L-OUT(MON)
SC2_R-OUT(MON)
SC1_L-OUT(TV)
SC1_R-OUT(TV)
SC1_R-IN
SC1_L-IN
SC_3_L
SC_3_R
SC_3_V
TO STV2310_C IN
PB_B
PR_R
Y_G
V100
H100
<CVBS/Y_AV>
<C_AV>
<1V8A>
<3V3A>
<64K-NVM>
(4MHZ)

IC101
TDA9886TSV4P

IC804
M24C64WMN6M
<64K-NVM>

IC2001
STV2310DM

IC3451
STV8216TP
<STV8206/07>

IC1203

KUSB

KCPA
J10AN07ON

K1A
J1YPF350N

SCART_1_2_3

Q151/2

Q1261/2

TO STV2310_C IN

TO_FRONT

TO_SCART_1

TO_SCART_2

FIRST BLANKING IN FOR RGB SCART

STV8206 80 PIN OPTION		
OPTION	R206 ACT.	R206/7 IMP.
C3401	X	0.1UF
C3402	X	10UF
L3454	X	10UH
R3453	22	X
JN01	X	J
R3454	330	X
JN02	X	J
JN03	J	X
JN04	X	J
L3455	X	10UH
C3477	10UF	X
C3478	0.1UF	X
C3404	X	0.1UF
C3403	X	10UF
L3456	X	10UH
JN06	J	X
JN07	X	J
C3406	X	0.1UF
L3457	X	10UH
C3408	X	0.1UF
JN05	X	J
JN08	J	X
Q3452	2SA	X
JN09	J	X
JN10	X	J
C3409	X	0.1UF
JN11	X	(WICRY)
JN12	X	(WICRY)
C3410	X	10UF
JN13	J	X
L3458	X	10UH
C3411	X	0.1UF
C3412	X	0.1UF

STV8206 80 PIN OPTION		
OPTION	8206 ACT.	82067 IMP.
C3401	X	0.1UF
C3402	X	10UF
L3454	X	10UH
R3453	22	X
JN01	X	J
R3454	330	X
JN02	X	J
JN03	J	X
JN04	X	J
L3455	X	10UH
C3477	10UF	X
C3478	0.1UF	X
C3404	X	0.1UF
C3403	X	10UF
L3456	X	10UH
JN06	J	X
JN07	X	J
C3406	X	0.1UF
L3457	X	10UH
C3408	X	0.1UF
JN05	X	J
JN08	J	X
C3452	2SA	X
JN09	J	X
JN10	X	J
C3409	X	0.1UF
JN11	X	(MICRO)
JN12	X	(MICRO)
C3410	X	10UF
JN13	J	X
L3458	X	10UH
C3411	X	0.1UF
C3412	X	0.1UF
C3413	X	10UF
C3414	X	0.1UF
L3459	X	10UH
C3452	0.1UF	0 OHM
JN14	X	J
JN15	J	X
JN16	J	X
JN17	X	J

ASSY,PWB,SIGNAL-HB3B : 1AA0B10H066B0
PWB,SIGNAL-WB6A : 1AA4B10E3210A

=1,000,000.
otherwise noted.
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e pF.
otherwise noted.

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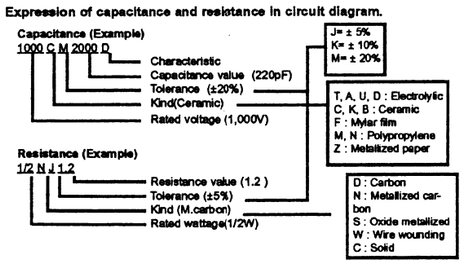
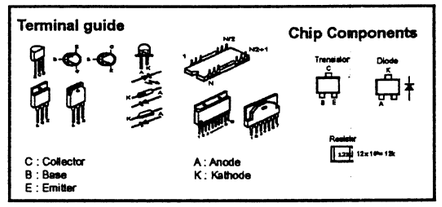
y using a colour
ion. Some volt-

ntrols adjusted for
a wide band oscil-

8. This circuit diagram covers a basic or representative chassis only. There may be some components or partial circuit differences between the actual chassis and the circuit diagram.
9. ■ Diode 1S1555 may be replaced with 1S2473,1S2076 or DS472 unless otherwise noted.
   ■ Transistor 2SC536(Q,R,S), 2SC1740(Q,R,S), 2SC945A(Q,R,P) or 2SC1815(G,O,Y) unless otherwise noted.
   ■ Transistor 2SA608(E,F) may be replaced with 2SA933(Q,R), 2SA564(QA,RA), or 2SA1015(O,Y) unless otherwise noted.

Expression of capacitance and resistance in circuit diagram.





ASSY,PWB,POWER&DEF,C5WEL
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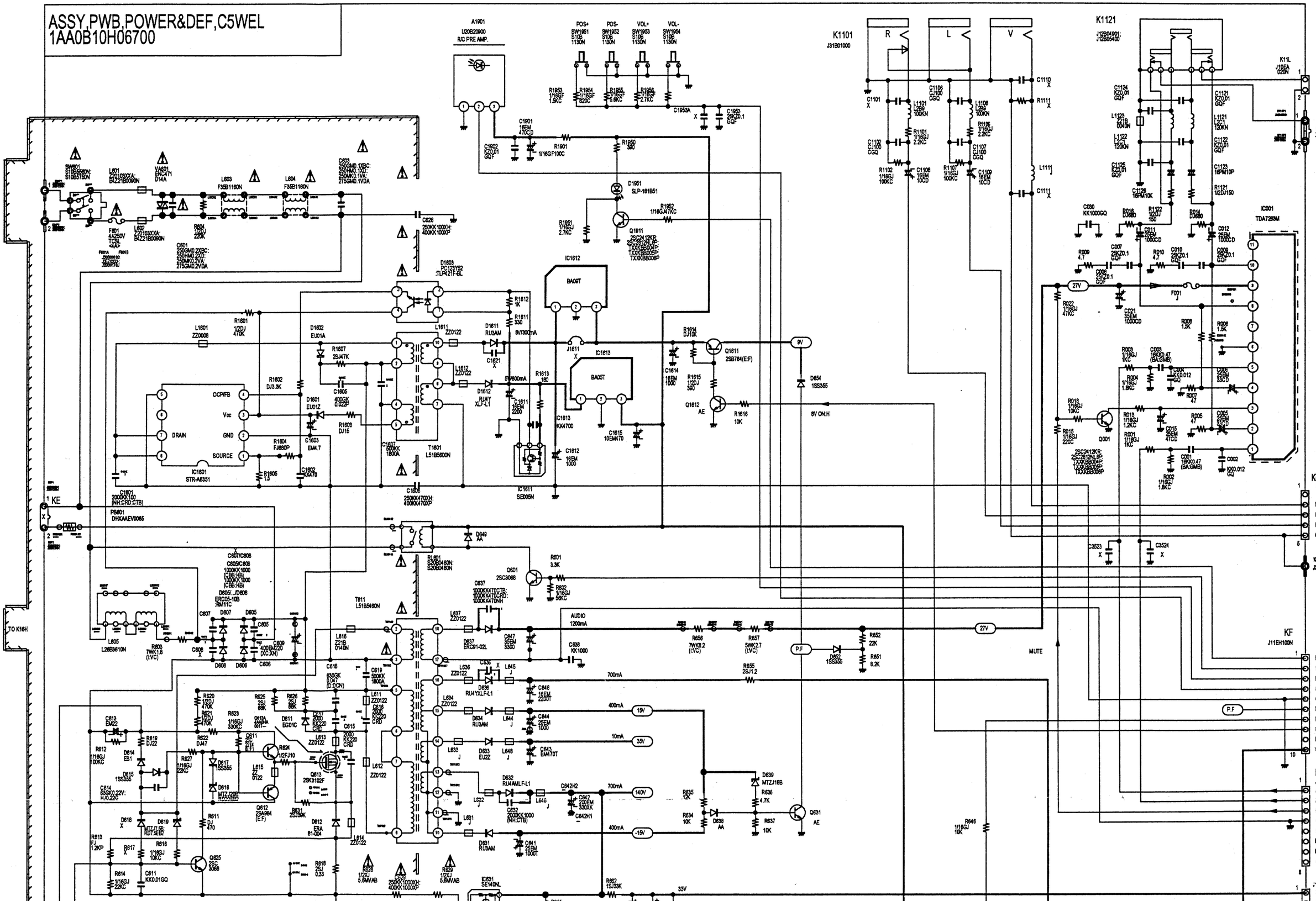
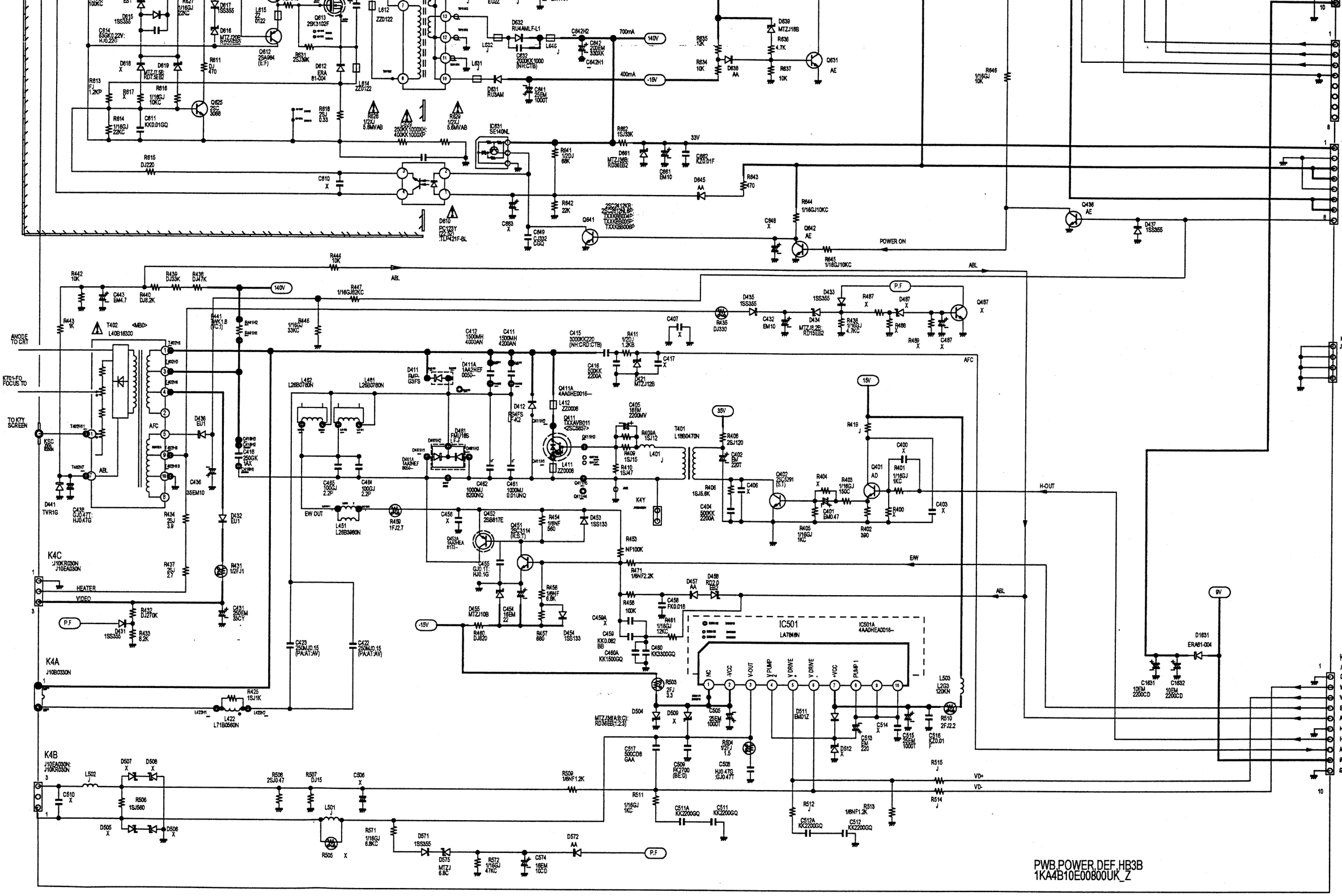



140V
700mA
400mA
-15V
33V
POWER ON
ABL
P.F
AFC
15V
35V
9V
H-OUT
E/W
VD+
VD-
HEATER
VIDEO
K4C
K4A
K4B
IC501
LA7846N
IC501A
4AA0HEA0016--
PWB,POWER,DEF,HB3B
1KA4B10E00800UK_Z

ASSY,PWB,SCART-HB3B
(1AA0B10H674A0)

PWB,SCART-HB3B
(1AA4B10E32300 A)

CELL: 1AA0B10H674A0

K1121

K11L

K11R

IC001
TDA7263M

<SC-3>
K1003

<SC-2>
K1002

<SC-1>
K1001

K10A

KG
J11EH050N
FRONT_V-IN
FRONT_R-IN
FRONT_L-IN
GND

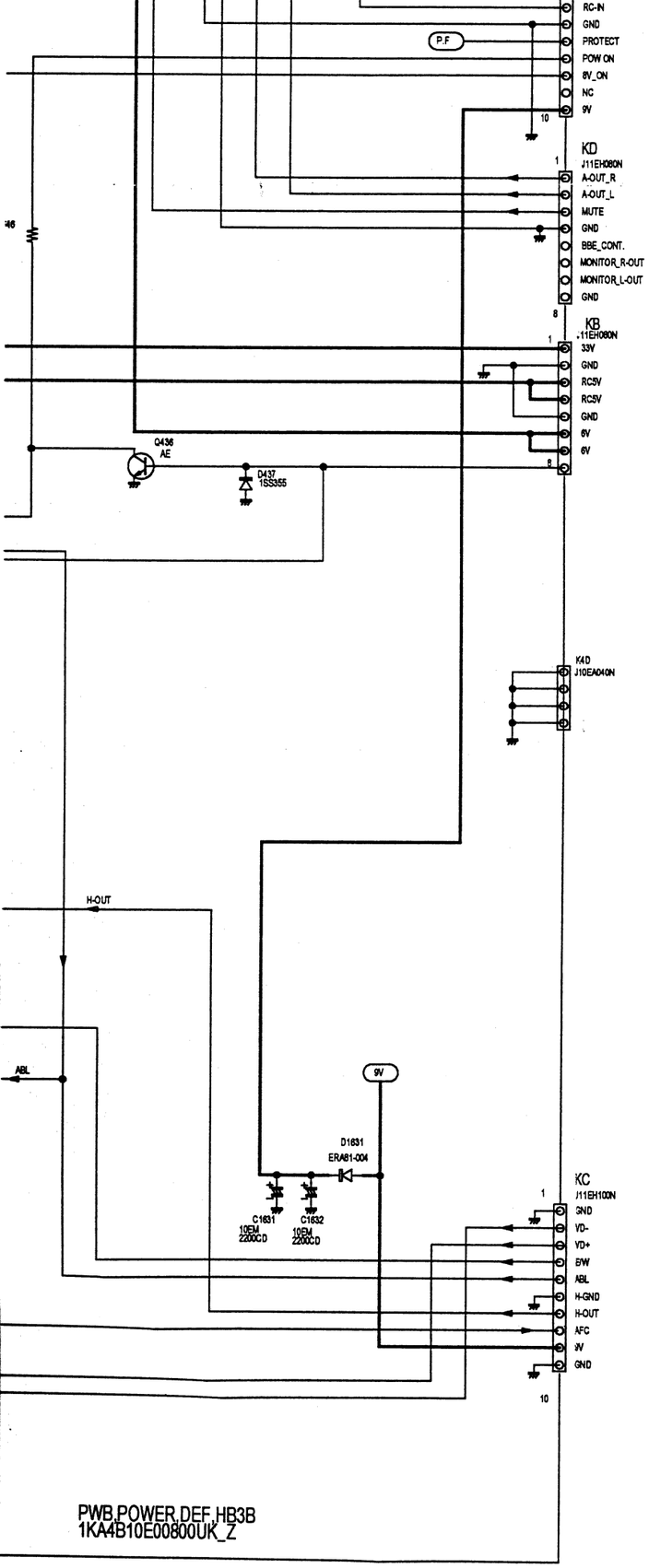
K4E
J306136ON

KF
J11EH100N
LED
RELAY
KEY_SW
RC-IN
GND
PROTECT
POW ON
8V_ON
NC
9V

KD
J11EH080N
A-OUT_R
A-OUT_L
MUTE
GND
BBE_CONT.
MONITOR_R-OUT
MONITOR_L-OUT
GND

KB
J11EH080N
33V
GND
RC5V
RC5V
GND

27V
MUTE
P.F


RC-IN
GND
PROTECT
POW ON
8V_ON
NC
9V
P.F
KD
J11EH080N
A-OUT_R
A-OUT_L
MUTE
GND
BBE_CONT.
MONITOR_R-OUT
MONITOR_L-OUT
GND
KB
J11EH080N
33V
GND
RC5V
RC5V
GND
6V
6V
Q436
AE
D437
1SS355
K4D
J10EA040N
H-OUT
ABL
9V
D1631
ERA81-004
C1631
105M
200CD
C1632
105M
200CD
KC
J11EH100N
GND
VD-
VD+
B/W
ABL
H-GND
H-OUT
AFC
8V
GND
PWB,POWER,DEF,HB3B
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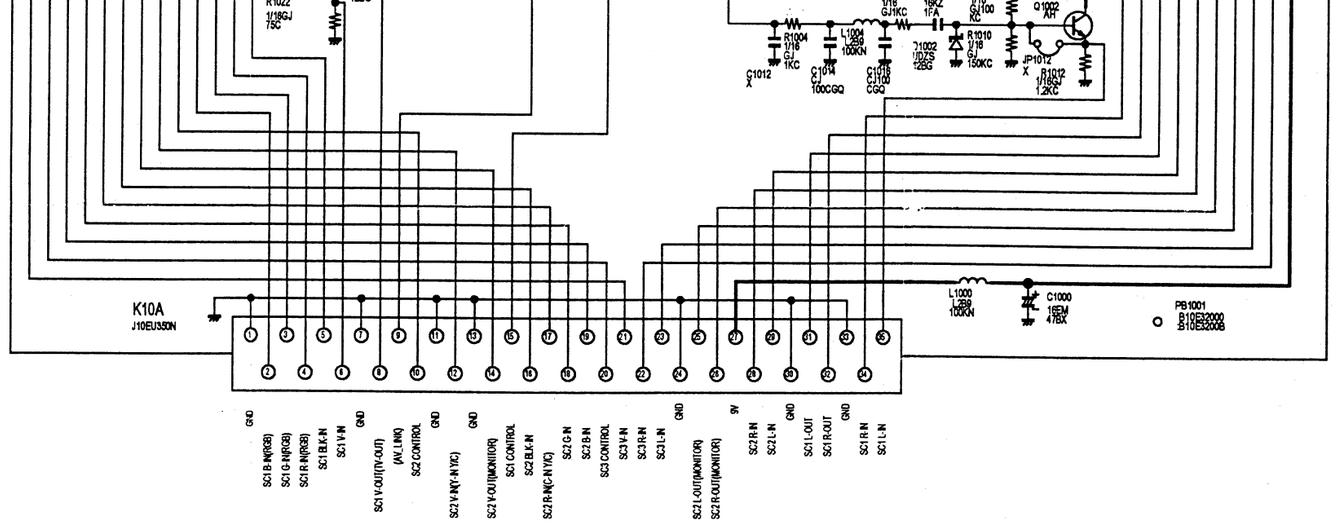
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J10EU350N
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SC1-G-IN(MONITOR)
SC1-R-IN(MONITOR)
SC1-B-IN
SC1-V-IN
GND
SC1-V-OUT(MONITOR)
SC2-CONTROL
GND
SC2-V-IN(NC)
SC2-V-OUT(MONITOR)
SC2-BLK-IN
SC2-R-IN(NC)
SC2-G-IN
SC2-B-IN
SC3-CONTROL
SC3-V-IN
SC3-R-IN
SC3-L-IN
GND
SC2-L-OUT(MONITOR)
SC2-R-OUT(MONITOR)
9V
SC2-R-IN
SC2-L-IN
GND
SC1-L-OUT
SC1-R-OUT
GND
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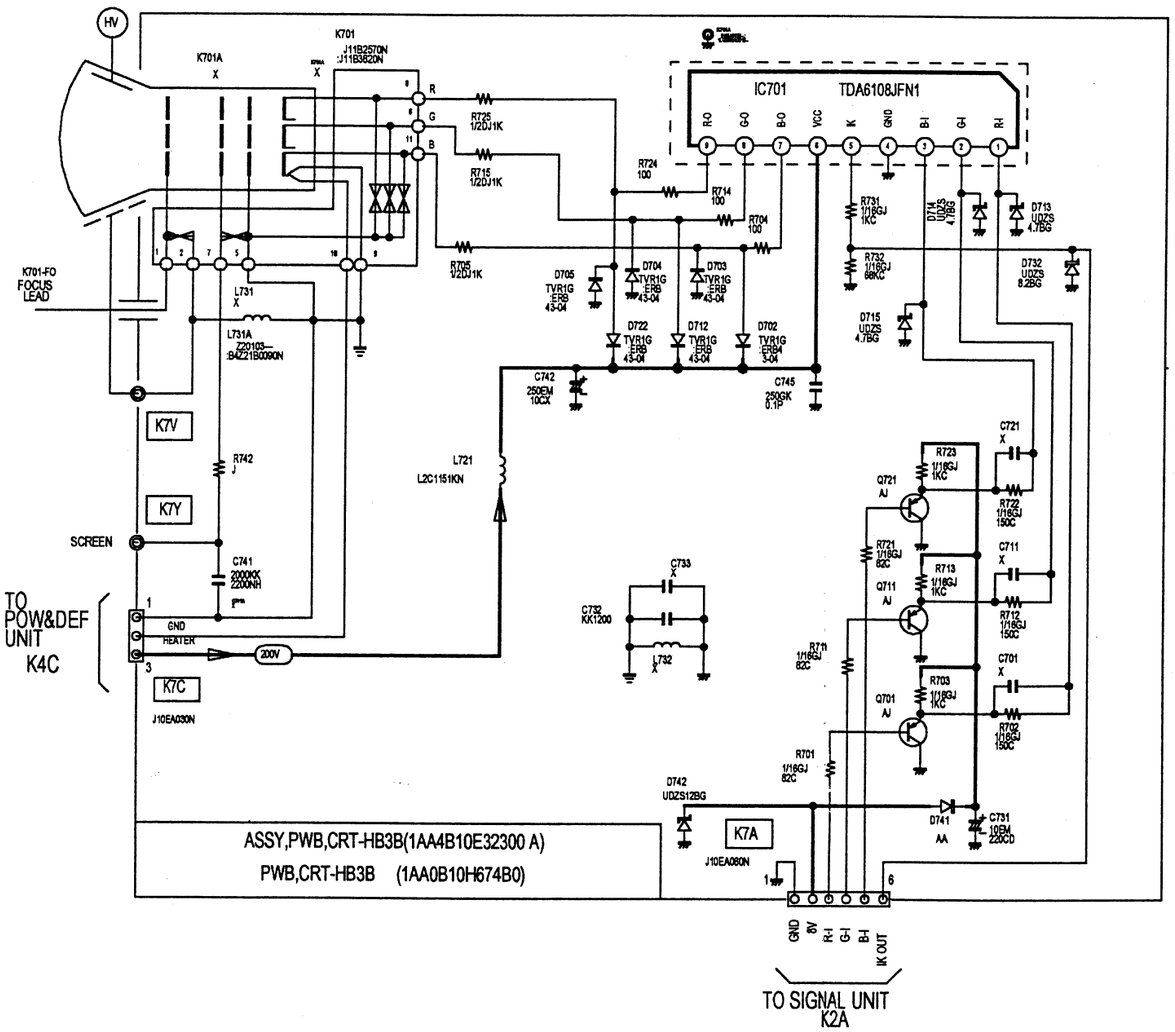
HV
K701
J11B2570N
J11B3820N
K701A
X
R
G
B
R725
1/2DJ1K
R715
1/2DJ1K
R705
1/2DJ1K
K701-FO
FOCUS
LEAD
L731
X
L731A
Z20103---
B4221B0090N
K7V
K7Y
SCREEN
R742
J
C741
2000KK
2200NH
K7C
J10EA030N
GND
HEATER
200V
TO
POW&DEF
UNIT
K4C
L721
L2C1151KN
C742
250EM
10CX
C745
250GK
0.1P
C733
X
C732
KK1200
L732
X
IC701
TDA6108JFN1
R-O
G-O
B-O
VCC
K
GND
B-I
G-I
R-I
R724
100
R714
100
R704
100
R731
1/16GJ
1KC
R732
1/16GJ
68KC
D705
TVR1G
ERB
43-04
D704
TVR1G
ERB
43-04
D703
TVR1G
ERB
43-04
D722
TVR1G
ERB
43-04
D712
TVR1G
ERB
43-04
D702
TVR1G
ERB
3-04
D714
UDZS
4.7BG
D713
UDZS
4.7BG
D732
UDZS
6.2BG
D715
UDZS
4.7BG
C721
X
R723
1/16GJ
1KC
R722
1/16GJ
150C
Q721
AJ
R721
1/16GJ
82C
C711
X
R713
1/16GJ
1KC
R712
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Q711
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R711
1/16GJ
82C
C701
X
R703
1/16GJ
1KC
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150C
Q701
AJ
R701
1/16GJ
82C
D742
UDZS12BG
D741
AA
C731
105M
200CD
K7A
J10EA080N
GND
8V
R-I
G-I
B-I
IK OUT
TO SIGNAL UNIT
K2A
ASSY,PWB,CRT-HB3B(1AA4B10E32300 A)
PWB,CRT-HB3B (1AA0B10H674B0)

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